
Appendix C - LakeVOC Model Output Files

Definition of Table Headings for Tables C1-C3

Time, time in days
C(Epil), concentration in epilimnion in micrograms per liter
C(Hypol), concentration in hypolimnion in micrograms per liter
VolEpi, volume of epilimnion in cubic meters
VolHyp, volume in hypolimnion in cubic meters
U, wind speed in meters per second
Tw, water temperature in degrees Celsius
kL, transfer velocity in meters per day
MLD, mass loading per day in kilograms per day
dMLD/dt, change in mass loading per day per time
Input, mass input in kilograms per time
Cs, saturation concentration in micrograms per liter
Cair, concentration in the air in parts per billion by volume
Evap, evaporation in millimeters per day
Inheight, inflow height in meters
Outheight, outflow height in meters
Inflow, inflow to lake in cubic meters per day
Outflow, outflow from lake in cubic meters per day
Iexchange, interlayer exchange
Makeup, volume to makeup
Makeup_mass, mass to makeup
Lake area, lake area in square meters
 $\mu\text{g/L}$, micrograms per liter
 m^3 , cubic meters
m/s, meters per second
 $^{\circ}\text{C}$, degrees Celsius
m/d, meters per day
kg/d, kilograms per day
mm/d, millimeters per day
ppbv, parts per billion by volume
 m^2 , square meters
 m^3/s , cubic meters per second

Table C1. Model output from daily model inputs for Lake Perris, California, methyl *tert*-butyl ether

Time	C(Epil) (µg/L)	C(Hypol) (µg/L)	VolEpi (m ³)	VolHyp (m ³)	U (m/s)	Tw (°C)	kL (m/d)	MLD (kg/d)	dMLD/dt	Input	Cs (µg/L)
0	4.80E+00	4.80E+00	1.47E+08	0.00E+00	2.38	12.45	0.201	0	0.00E+00	3.12E+01	1.31E+00
1	4.78E+00	4.78E+00	1.39E+08	0.00E+00	2.33	12.65	0.1954	0	0.00E+00	2.27E+01	1.38E+00
2	4.74E+00	4.74E+00	1.39E+08	0.00E+00	2.33	12.6	0.1957	0	0.00E+00	8.51E+00	1.44E+00
3	4.71E+00	4.71E+00	1.38E+08	0.00E+00	2.33	12.55	0.196	0	0.00E+00	2.27E+01	1.50E+00
4	4.68E+00	4.68E+00	1.38E+08	0.00E+00	2.34	12.45	0.196	0	0.00E+00	3.40E+01	1.56E+00
5	4.66E+00	4.66E+00	1.38E+08	0.00E+00	2.34	12.4	0.1956	0	0.00E+00	1.70E+01	1.62E+00
6	4.63E+00	4.63E+00	1.38E+08	0.00E+00	2.34	12.35	0.1959	0	0.00E+00	0.00E+00	1.67E+00
7	4.59E+00	4.59E+00	1.38E+08	0.00E+00	2.35	12.3	0.1962	0	0.00E+00	5.67E+00	1.72E+00
8	4.56E+00	4.56E+00	1.38E+08	0.00E+00	2.35	12.3	0.1969	0	0.00E+00	2.27E+01	1.76E+00
9	4.54E+00	4.54E+00	1.38E+08	0.00E+00	2.36	12.25	0.1973	0	0.00E+00	3.69E+01	1.80E+00
10	4.54E+00	4.54E+00	1.38E+08	0.00E+00	2.37	12.2	0.1976	0	0.00E+00	7.37E+01	1.85E+00
151	1.58E+01	4.09E+00	4.04E+07	1.11E+08	3.11	23.45	0.4539	4.7	4.00E-02	1.15E+03	2.05E-01
152	1.61E+01	4.09E+00	4.07E+07	1.11E+08	3.11	23.55	0.4553	4.7	3.00E-02	7.52E+02	2.03E-01
153	1.57E+01	4.09E+00	4.09E+07	1.10E+08	3.11	23.65	0.4568	4.7	3.00E-02	5.18E+02	2.02E-01
154	1.51E+01	4.09E+00	4.12E+07	1.10E+08	3.11	23.75	0.4582	4.8	4.00E-02	4.25E+02	2.00E-01
155	1.43E+01	4.09E+00	4.15E+07	1.10E+08	3.1	23.85	0.4584	4.8	4.00E-02	4.04E+02	1.98E-01
156	1.38E+01	4.09E+00	4.19E+07	1.09E+08	3.1	23.9	0.458	4.9	5.00E-02	5.18E+02	1.97E-01
157	1.35E+01	4.09E+00	4.22E+07	1.08E+08	3.1	23.95	0.4587	4.9	4.00E-02	6.66E+02	1.96E-01
158	1.36E+01	4.09E+00	4.25E+07	1.08E+08	3.1	24.05	0.4601	4.9	5.00E-02	9.29E+02	1.95E-01
159	1.43E+01	4.09E+00	4.29E+07	1.07E+08	3.09	24.15	0.4604	5	5.00E-02	8.86E+02	1.93E-01
160	1.41E+01	4.09E+00	4.33E+07	1.07E+08	3.09	24.25	0.4606	5	5.00E-02	5.18E+02	1.91E-01
161	1.36E+01	4.09E+00	4.38E+07	1.07E+08	3.09	24.35	0.4621	5.1	6.00E-02	4.47E+02	1.90E-01
162	1.31E+01	4.09E+00	4.42E+07	1.06E+08	3.09	24.45	0.4635	5.2	5.00E-02	4.54E+02	1.88E-01
163	1.27E+01	4.09E+00	4.46E+07	1.06E+08	3.08	24.5	0.463	5.2	6.00E-02	4.54E+02	1.87E-01
164	1.25E+01	4.09E+00	4.51E+07	1.05E+08	3.08	24.55	0.4625	5.3	6.00E-02	7.44E+02	1.86E-01
165	1.31E+01	4.09E+00	4.56E+07	1.05E+08	3.08	24.65	0.464	5.3	7.00E-02	1.02E+03	1.85E-01
166	1.37E+01	4.09E+00	4.61E+07	1.04E+08	3.08	24.75	0.4642	5.4	6.00E-02	9.94E+02	1.83E-01
167	1.41E+01	4.09E+00	4.66E+07	1.04E+08	3.07	24.85	0.4644	5.5	7.00E-02	8.08E+02	1.80E-01
168	1.40E+01	4.09E+00	4.72E+07	1.03E+08	3.06	24.9	0.4639	5.5	7.00E-02	6.81E+02	1.80E-01
169	1.39E+01	4.09E+00	4.77E+07	1.02E+08	3.06	24.95	0.4634	5.6	7.00E-02	6.81E+02	1.79E-01
170	1.39E+01	4.08E+00	4.83E+07	1.02E+08	3.06	25.05	0.4648	5.7	7.00E-02	8.17E+02	1.77E-01
171	1.43E+01	4.08E+00	4.89E+07	1.01E+08	3.05	25.1	0.4643	5.8	8.00E-02	1.13E+03	1.77E-01
172	1.52E+01	4.07E+00	4.95E+07	1.01E+08	3.05	25.15	0.4638	5.8	7.00E-02	1.39E+03	1.76E-01
173	1.62E+01	4.06E+00	5.01E+07	1.00E+08	3.04	25.25	0.464	5.9	8.00E-02	1.25E+03	1.74E-01
174	1.64E+01	4.06E+00	5.07E+07	9.93E+07	3.04	25.3	0.4635	6	8.00E-02	8.25E+02	1.73E-01
175	1.61E+01	4.05E+00	5.12E+07	9.86E+07	3.04	25.35	0.463	6.1	7.00E-02	5.79E+02	1.73E-01

Cair (ppbv)	Evap (mm/d)	Case	Inheight (m)	Outheight (m)	Inflow (m ³ /s)	Outflow (m ³ /s)	lexchange	Makeup	Makeup_ mass	Lake area (m ²)
3.35E+00	3.35E+07	4	4.40E+00	1.21E+01	4.14E-01	1.05E+00	6.35E-01	-1.60E+07	-6.70E+02	9.37E+06
3.58E+00	3.38E+07	4	4.40E+00	1.21E+01	0.00E+00	1.77E+00	1.77E+00	-1.41E+05	-7.65E+00	9.53E+06
3.73E+00	3.38E+07	4	4.40E+00	1.21E+01	0.00E+00	1.78E+00	1.78E+00	-2.29E+05	-1.23E+01	9.54E+06
3.86E+00	3.38E+07	4	4.40E+00	1.21E+01	5.00E-02	2.11E+00	2.06E+00	-1.41E+05	-7.52E+00	9.54E+06
4.00E+00	3.37E+07	4	4.40E+00	1.21E+01	4.22E-02	2.14E+00	2.10E+00	-1.41E+05	-7.49E+00	9.55E+06
4.12E+00	3.36E+07	4	4.40E+00	1.21E+01	4.14E-01	1.90E+00	1.49E+00	-5.37E+04	-2.84E+00	9.55E+06
4.22E+00	3.36E+07	4	4.40E+00	1.21E+01	4.14E-01	2.14E+00	1.73E+00	-2.28E+05	-1.20E+01	9.55E+06
4.33E+00	3.35E+07	4	4.40E+00	1.21E+01	1.57E-01	2.05E+00	1.89E+00	-5.37E+04	-2.79E+00	9.56E+06
4.42E+00	3.36E+07	4	4.40E+00	1.21E+01	1.28E-01	7.94E-01	6.65E-01	-5.36E+04	-2.77E+00	9.56E+06
4.51E+00	3.11E+07	4	4.40E+00	1.21E+01	0.00E+00	1.93E-01	1.93E-01	3.11E+04	6.36E-01	8.85E+06
4.60E+00	3.10E+07	4	4.40E+00	1.21E+01	4.54E-01	1.56E-01	-2.98E-01	3.11E+04	6.56E-01	8.85E+06
1.42E+00	7.76E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-3.25E+05	7.76E+04	1.81E-01	9.29E+06
1.42E+00	7.81E+07	4	4.40E+00	1.21E+01	7.14E-01	6.40E-02	-1.62E+05	1.69E+05	3.90E-01	9.29E+06
1.42E+00	7.85E+07	4	4.40E+00	1.21E+01	7.92E-01	1.43E-01	-2.43E+05	7.85E+04	1.80E-01	9.28E+06
1.42E+00	7.90E+07	4	4.40E+00	1.21E+01	6.36E-01	1.57E-01	-2.43E+05	1.70E+05	3.86E-01	9.28E+06
1.42E+00	7.94E+07	4	4.40E+00	1.21E+01	5.57E-01	1.57E-01	-3.24E+05	7.94E+04	1.78E-01	9.28E+06
1.42E+00	7.96E+07	4	4.40E+00	1.21E+01	2.24E+00	5.53E+00	-9.69E+05	-5.59E+05	-8.72E+01	9.29E+06
1.42E+00	7.99E+07	4	4.40E+00	1.21E+01	2.23E+00	5.52E+00	-5.64E+05	-1.93E+05	-2.96E+01	9.30E+06
1.42E+00	8.04E+07	4	4.40E+00	1.21E+01	0.00E+00	1.43E-01	-4.83E+05	-1.07E+04	-1.64E+00	9.30E+06
1.42E+00	8.08E+07	4	4.40E+00	1.21E+01	7.15E-02	1.50E-01	-4.02E+05	8.08E+04	1.77E-01	9.30E+06
1.42E+00	8.12E+07	4	4.40E+00	1.21E+01	1.50E-01	1.50E-01	-4.01E+05	8.12E+04	1.76E-01	9.30E+06
1.42E+00	8.17E+07	4	4.40E+00	1.21E+01	7.85E-02	1.57E-01	-4.80E+05	8.17E+04	1.76E-01	9.30E+06
1.42E+00	8.21E+07	4	4.40E+00	1.21E+01	0.00E+00	1.50E-01	-4.80E+05	-8.88E+03	-1.32E+00	9.30E+06
1.42E+00	8.23E+07	4	4.40E+00	1.21E+01	0.00E+00	1.50E-01	-4.79E+05	8.23E+04	1.75E-01	9.30E+06
1.42E+00	8.25E+07	4	4.40E+00	1.21E+01	0.00E+00	1.57E-01	-5.58E+05	-8.53E+03	-1.21E+00	9.31E+06
1.42E+00	8.30E+07	4	4.40E+00	1.21E+01	7.15E-02	1.50E-01	-5.56E+05	8.30E+04	1.74E-01	9.31E+06
1.42E+00	8.34E+07	4	4.40E+00	1.21E+01	1.36E-01	1.36E-01	-4.76E+05	8.34E+04	1.73E-01	9.31E+06
1.41E+00	8.38E+07	4	4.40E+00	1.21E+01	6.40E-02	1.36E-01	-5.54E+05	8.38E+04	1.71E-01	9.31E+06
1.41E+00	8.39E+07	4	4.40E+00	1.21E+01	2.44E-01	1.50E-01	-5.53E+05	8.39E+04	1.71E-01	9.31E+06
1.41E+00	8.41E+07	4	4.40E+00	1.21E+01	4.64E-01	1.43E-01	-5.52E+05	8.41E+04	1.71E-01	9.31E+06
1.41E+00	8.46E+07	4	4.40E+00	1.21E+01	2.21E-01	1.36E-01	-5.51E+05	8.46E+04	1.70E-01	9.31E+06
1.41E+00	8.47E+07	4	4.40E+00	1.21E+01	0.00E+00	1.79E-01	-6.29E+05	8.47E+04	1.70E-01	9.31E+06
1.41E+00	8.49E+07	4	4.40E+00	1.21E+01	0.00E+00	2.14E-01	-6.27E+05	-6.07E+03	-1.04E+00	9.31E+06
1.41E+00	8.53E+07	4	4.40E+00	1.21E+01	0.00E+00	2.14E-01	-6.26E+05	8.53E+04	1.69E-01	9.31E+06
1.41E+00	8.55E+07	4	4.40E+00	1.21E+01	0.00E+00	2.14E-01	-7.02E+05	-5.47E+03	-1.02E+00	9.31E+06
1.41E+00	8.57E+07	4	4.40E+00	1.21E+01	0.00E+00	2.14E-01	-6.23E+05	-5.28E+03	-9.62E-01	9.31E+06

Table C1. Model output from daily model inputs for Lake Perris, California, methyl *tert*-butyl ether—Continued

Time	C(Epi) ($\mu\text{g/L}$)	C(Hypol) ($\mu\text{g/L}$)	VolEpi (m^3)	VolHyp (m^3)	U (m/s)	Tw ($^{\circ}\text{C}$)	kL (m/d)	MLD (kg/d)	dMLD/dt	Input	Cs ($\mu\text{g/L}$)
176	1.56E+01	4.03E+00	5.18E+07	9.80E+07	3.03	25.45	0.4632	6.1	8.00E-02	5.02E+02	1.71E-01
177	1.51E+01	4.02E+00	5.25E+07	9.73E+07	3.02	25.5	0.4627	6.2	9.00E-02	6.38E+02	1.71E-01
178	1.50E+01	4.01E+00	5.31E+07	9.66E+07	3.02	25.55	0.4621	6.3	8.00E-02	9.36E+02	1.70E-01
179	1.55E+01	3.99E+00	5.37E+07	9.60E+07	3.02	25.6	0.4616	6.4	8.00E-02	1.23E+03	1.69E-01
180	1.62E+01	3.97E+00	5.44E+07	9.55E+07	3.01	25.65	0.4611	6.5	8.00E-02	1.27E+03	1.68E-01
181	1.66E+01	3.96E+00	5.51E+07	9.51E+07	3	25.75	0.4613	6.5	9.00E-02	9.44E+02	1.66E-01
182	1.64E+01	3.94E+00	5.58E+07	9.47E+07	3	25.8	0.4607	6.6	8.00E-02	7.49E+02	1.65E-01
183	1.63E+01	3.92E+00	5.64E+07	9.40E+07	3	25.85	0.4602	6.7	8.00E-02	8.68E+02	1.64E-01
184	1.64E+01	3.90E+00	5.70E+07	9.33E+07	2.99	25.9	0.4597	6.8	9.00E-02	1.11E+03	1.64E-01
185	1.69E+01	3.87E+00	5.77E+07	9.27E+07	2.99	25.95	0.4591	6.9	8.00E-02	1.25E+03	1.63E-01
186	1.75E+01	3.85E+00	5.83E+07	9.21E+07	2.98	26	0.4586	7	8.00E-02	1.29E+03	1.62E-01
187	1.80E+01	3.82E+00	5.89E+07	9.16E+07	2.98	26	0.4574	7	8.00E-02	1.17E+03	1.62E-01
188	1.80E+01	3.80E+00	5.95E+07	9.09E+07	2.97	26.05	0.4569	7.1	9.00E-02	8.00E+02	1.62E-01
189	1.75E+01	3.77E+00	6.02E+07	9.03E+07	2.96	26.1	0.4563	7.2	8.00E-02	5.79E+02	1.60E-01
190	1.70E+01	3.74E+00	6.08E+07	8.97E+07	2.96	26.15	0.4545	7.3	8.00E-02	5.96E+02	1.59E-01
191	1.67E+01	3.71E+00	6.14E+07	8.90E+07	2.95	26.2	0.454	7.4	8.00E-02	8.25E+02	1.58E-01
192	1.69E+01	3.68E+00	6.20E+07	8.84E+07	2.95	26.2	0.4528	7.4	8.00E-02	1.17E+03	1.58E-01
193	1.74E+01	3.65E+00	6.26E+07	8.79E+07	2.94	26.25	0.4522	7.5	7.00E-02	1.29E+03	1.58E-01
194	1.79E+01	3.62E+00	6.31E+07	8.74E+07	2.94	26.3	0.4517	7.6	8.00E-02	1.18E+03	1.57E-01
195	1.81E+01	3.59E+00	6.37E+07	8.68E+07	2.92	26.3	0.4492	7.7	7.00E-02	8.59E+02	1.56E-01
196	1.77E+01	3.56E+00	6.42E+07	8.63E+07	2.92	26.35	0.4487	7.7	7.00E-02	5.79E+02	1.55E-01
197	1.72E+01	3.52E+00	6.47E+07	8.58E+07	2.92	26.4	0.4481	7.8	7.00E-02	5.87E+02	1.55E-01
198	1.69E+01	3.49E+00	6.52E+07	8.53E+07	2.91	26.4	0.4457	7.9	7.00E-02	7.40E+02	1.55E-01
199	1.69E+01	3.45E+00	6.58E+07	8.48E+07	2.9	26.4	0.4445	8	7.00E-02	9.70E+02	1.55E-01
200	1.72E+01	3.42E+00	6.62E+07	8.43E+07	2.9	26.45	0.4439	8	6.00E-02	1.30E+03	1.54E-01
201	1.79E+01	3.39E+00	6.67E+07	8.39E+07	2.89	26.5	0.4421	8.1	6.00E-02	1.24E+03	1.53E-01
202	1.80E+01	3.36E+00	6.71E+07	8.35E+07	2.88	26.5	0.4409	8.1	6.00E-02	6.98E+02	1.53E-01
203	1.75E+01	3.33E+00	6.76E+07	8.31E+07	2.88	26.5	0.4398	8.2	6.00E-02	4.93E+02	1.53E-01
204	1.71E+01	3.31E+00	6.78E+07	8.21E+07	2.86	26.5	0.4373	8.3	5.00E-02	5.70E+02	1.53E-01
205	1.66E+01	3.28E+00	6.81E+07	8.12E+07	2.86	26.5	0.4361	8.3	5.00E-02	6.98E+02	1.52E-01
206	1.67E+01	3.26E+00	6.84E+07	8.09E+07	2.85	26.55	0.4356	8.4	5.00E-02	1.11E+03	1.51E-01
207	1.73E+01	3.24E+00	6.87E+07	8.05E+07	2.84	26.6	0.4338	8.4	4.00E-02	1.42E+03	1.51E-01
208	1.80E+01	3.22E+00	6.91E+07	8.02E+07	2.84	26.6	0.4326	8.4	5.00E-02	1.22E+03	1.51E-01
209	1.81E+01	3.20E+00	6.93E+07	7.99E+07	2.83	26.6	0.4314	8.5	3.00E-02	7.74E+02	1.51E-01
210	1.79E+01	3.18E+00	6.96E+07	7.96E+07	2.83	26.6	0.429	8.5	4.00E-02	6.38E+02	1.51E-01
211	1.77E+01	3.16E+00	6.98E+07	7.94E+07	2.82	26.6	0.4278	8.6	4.00E-02	6.64E+02	1.51E-01

Cair (ppbv)	Evap (mm/d)	Case	Inheight (m)	Outheight (m)	Inflow (m ³ /s)	Outflow (m ³ /s)	lexchange	Makeup	Makeup_ mass	Lake area (m ²)
1.41E+00	8.61E+07	4	4.40E+00	1.21E+01	0.00E+00	2.14E-01	-6.21E+05	8.61E+04	1.67E-01	9.31E+06
1.41E+00	8.63E+07	4	4.40E+00	1.21E+01	0.00E+00	2.14E-01	-7.75E+05	-4.67E+03	-7.97E-01	9.31E+06
1.41E+00	8.64E+07	4	4.40E+00	1.21E+01	0.00E+00	2.14E-01	-6.18E+05	8.64E+04	1.67E-01	9.31E+06
1.41E+00	8.66E+07	4	4.40E+00	1.21E+01	7.50E-01	2.14E-01	-5.40E+05	1.78E+05	3.40E-01	9.31E+06
1.41E+00	8.67E+07	4	4.40E+00	1.21E+01	1.02E+00	2.14E-01	-5.39E+05	1.78E+05	3.39E-01	9.31E+06
1.40E+00	8.71E+07	4	4.40E+00	1.21E+01	3.11E+00	2.14E-01	-3.07E+05	5.42E+05	1.02E+00	9.31E+06
1.40E+00	8.72E+07	4	4.40E+00	1.21E+01	3.42E+00	2.07E-01	-5.37E+05	1.78E+05	3.34E-01	9.30E+06
1.40E+00	8.74E+07	4	4.40E+00	1.21E+01	6.86E-01	6.86E-01	-6.89E+05	-3.68E+03	-6.80E-01	9.30E+06
1.40E+00	8.75E+07	4	4.40E+00	1.21E+01	1.00E-01	6.71E-01	-7.63E+05	-3.49E+03	-6.50E-01	9.30E+06
1.40E+00	8.77E+07	4	4.40E+00	1.21E+01	5.78E-01	1.79E-01	-5.33E+05	1.79E+05	3.30E-01	9.30E+06
1.40E+00	8.79E+07	4	4.40E+00	1.21E+01	1.15E+00	1.86E-01	-5.32E+05	1.79E+05	3.29E-01	9.30E+06
1.40E+00	8.78E+07	4	4.40E+00	1.21E+01	6.71E-01	1.93E-01	-6.07E+05	8.78E+04	1.62E-01	9.30E+06
1.40E+00	8.79E+07	4	4.40E+00	1.21E+01	1.00E-01	1.93E-01	-6.81E+05	8.79E+04	1.61E-01	9.30E+06
1.40E+00	8.81E+07	4	4.40E+00	1.21E+01	8.55E-02	1.79E-01	-6.04E+05	8.81E+04	1.60E-01	9.30E+06
1.39E+00	8.82E+07	4	4.40E+00	1.21E+01	1.79E-01	1.79E-01	-6.02E+05	8.82E+04	1.59E-01	9.30E+06
1.39E+00	8.83E+07	4	4.40E+00	1.21E+01	9.30E-02	1.79E-01	-6.76E+05	-2.72E+03	-5.16E-01	9.30E+06
1.39E+00	8.83E+07	4	4.40E+00	1.21E+01	2.43E-01	1.64E-01	-5.24E+05	1.79E+05	3.22E-01	9.30E+06
1.39E+00	8.84E+07	4	4.40E+00	1.21E+01	4.85E-01	1.64E-01	-5.23E+05	8.84E+04	1.58E-01	9.30E+06
1.39E+00	8.86E+07	4	4.40E+00	1.21E+01	3.28E-01	1.71E-01	-5.97E+05	8.86E+04	1.58E-01	9.30E+06
1.38E+00	8.84E+07	4	4.40E+00	1.21E+01	3.36E-01	1.71E-01	-5.21E+05	8.84E+04	1.57E-01	9.30E+06
1.38E+00	8.85E+07	4	4.40E+00	1.21E+01	6.64E-01	1.79E-01	-4.46E+05	1.80E+05	3.16E-01	9.30E+06
1.38E+00	8.87E+07	4	4.40E+00	1.21E+01	5.00E-01	1.79E-01	-5.19E+05	8.87E+04	1.55E-01	9.30E+06
1.38E+00	8.85E+07	4	4.40E+00	1.21E+01	8.55E-02	1.71E-01	-5.91E+05	-2.56E+03	-4.92E-01	9.30E+06
1.38E+00	8.84E+07	4	4.40E+00	1.21E+01	5.57E-01	1.64E-01	-4.42E+05	1.80E+05	3.15E-01	9.30E+06
1.38E+00	8.86E+07	4	4.40E+00	1.21E+01	6.36E-01	1.57E-01	-4.41E+05	8.86E+04	1.55E-01	9.30E+06
1.38E+00	8.86E+07	4	4.40E+00	1.21E+01	1.72E-01	1.72E-01	-4.40E+05	8.86E+04	1.54E-01	9.30E+06
1.38E+00	8.85E+07	4	4.40E+00	1.21E+01	3.50E-01	1.86E-01	-3.65E+05	1.80E+05	3.12E-01	9.30E+06
1.38E+00	8.84E+07	4	4.40E+00	1.21E+01	3.43E-01	1.79E-01	-4.37E+05	8.84E+04	1.54E-01	9.30E+06
1.37E+00	8.84E+07	4	4.40E+00	1.21E+01	8.55E-02	1.71E-01	-1.45E+06	-1.28E+06	-2.47E+02	9.31E+06
1.37E+00	8.84E+07	4	4.40E+00	1.21E+01	0.00E+00	1.79E-01	-3.60E+05	8.84E+04	1.53E-01	9.32E+06
1.37E+00	8.86E+07	4	4.40E+00	1.21E+01	8.59E-02	1.79E-01	-3.60E+05	8.86E+04	1.52E-01	9.32E+06
1.37E+00	8.86E+07	4	4.40E+00	1.21E+01	3.36E-01	1.71E-01	-2.87E+05	8.86E+04	1.52E-01	9.32E+06
1.37E+00	8.85E+07	4	4.40E+00	1.21E+01	2.50E-01	1.64E-01	-3.58E+05	8.85E+04	1.52E-01	9.32E+06
1.37E+00	8.85E+07	4	4.40E+00	1.21E+01	0.00E+00	1.64E-01	-2.86E+05	-2.37E+03	-4.87E-01	9.32E+06
1.37E+00	8.83E+07	4	4.40E+00	1.21E+01	0.00E+00	1.79E-01	-2.85E+05	8.83E+04	1.51E-01	9.32E+06
1.37E+00	8.82E+07	4	4.40E+00	1.21E+01	8.55E-02	1.79E-01	-2.14E+05	8.82E+04	1.51E-01	9.32E+06

Table C1. Model output from daily model inputs for Lake Perris, California, methyl *tert*-butyl ether—Continued

Time	C(Epi) (µg/L)	C(Hypol) (µg/L)	VolEpi (m ³)	VolHyp (m ³)	U (m/s)	Tw (°C)	kL (m/d)	MLD (kg/d)	dMLD/dt	Input	Cs (µg/L)
212	1.75E+01	3.14E+00	7.00E+07	7.90E+07	2.81	26.6	0.4266	8.6	3.00E-02	7.71E+02	1.51E-01
213	1.76E+01	3.13E+00	7.01E+07	7.87E+07	2.8	26.6	0.4242	8.6	3.00E-02	1.22E+03	1.51E-01
214	1.84E+01	3.11E+00	7.03E+07	7.85E+07	2.8	26.6	0.423	8.6	2.00E-02	1.66E+03	1.52E-01
215	1.94E+01	3.10E+00	7.04E+07	7.84E+07	2.79	26.6	0.4218	8.6	1.00E-02	1.47E+03	1.52E-01
216	1.98E+01	3.09E+00	7.04E+07	7.83E+07	2.79	26.6	0.4194	8.7	1.00E-02	9.43E+02	1.52E-01
217	1.97E+01	3.07E+00	7.05E+07	7.81E+07	2.78	26.55	0.4177	8.7	1.00E-02	7.54E+02	1.53E-01
218	1.95E+01	3.06E+00	7.05E+07	7.80E+07	2.77	26.5	0.4159	8.7	1.00E-02	7.15E+02	1.53E-01
219	1.94E+01	3.06E+00	7.05E+07	7.80E+07	2.77	26.5	0.4135	8.7	-1.00E-02	8.54E+02	1.54E-01
220	1.97E+01	3.05E+00	7.05E+07	7.80E+07	2.76	26.5	0.4123	8.7	0.00E+00	1.32E+03	1.54E-01
221	2.05E+01	3.04E+00	7.05E+07	7.81E+07	2.75	26.5	0.4112	8.7	0.00E+00	1.69E+03	1.54E-01
222	2.15E+01	3.07E+00	7.04E+07	7.81E+07	2.74	26.5	0.4088	8.7	-1.00E-02	1.41E+03	1.55E-01
223	2.17E+01	3.06E+00	7.02E+07	7.80E+07	2.74	26.45	0.4071	8.6	-2.00E-02	9.33E+02	1.56E-01
224	2.15E+01	3.06E+00	7.00E+07	7.80E+07	2.74	26.4	0.4053	8.6	-2.00E-02	7.15E+02	1.57E-01
225	2.13E+01	3.07E+00	6.98E+07	7.79E+07	2.73	26.4	0.403	8.6	-2.00E-02	6.85E+02	1.58E-01
226	2.10E+01	3.07E+00	6.95E+07	7.76E+07	2.72	26.4	0.4018	8.6	-3.00E-02	7.54E+02	1.58E-01
227	2.09E+01	3.07E+00	6.91E+07	7.72E+07	2.71	26.35	0.4001	8.5	-3.00E-02	1.06E+03	1.60E-01
228	2.13E+01	3.07E+00	6.87E+07	7.69E+07	2.71	26.3	0.3972	8.5	-4.00E-02	1.44E+03	1.61E-01
229	2.20E+01	3.07E+00	6.84E+07	7.70E+07	2.7	26.3	0.396	8.5	-4.00E-02	1.30E+03	1.62E-01
230	2.21E+01	3.19E+00	6.82E+07	7.77E+07	2.7	26.25	0.3943	8.4	-4.00E-02	8.64E+02	1.64E-01
231	2.16E+01	3.37E+00	6.80E+07	7.83E+07	2.69	26.2	0.3915	8.4	-4.00E-02	6.25E+02	1.66E-01
232	2.12E+01	3.48E+00	6.77E+07	7.87E+07	2.68	26.2	0.3903	8.3	-5.00E-02	6.35E+02	1.67E-01
233	2.10E+01	3.56E+00	6.73E+07	7.91E+07	2.67	26.15	0.3886	8.3	-6.00E-02	8.14E+02	1.69E-01
234	2.12E+01	3.65E+00	6.69E+07	7.95E+07	2.67	26.1	0.3869	8.2	-5.00E-02	1.26E+03	1.71E-01
235	2.20E+01	3.72E+00	6.65E+07	7.99E+07	2.66	26.05	0.3852	8.2	-6.00E-02	1.55E+03	1.72E-01
236	2.28E+01	3.82E+00	6.61E+07	8.04E+07	2.66	26	0.3824	8.1	-6.00E-02	1.32E+03	1.74E-01
237	2.29E+01	3.96E+00	6.57E+07	8.11E+07	2.65	25.95	0.3807	8	-7.00E-02	8.74E+02	1.76E-01
238	2.26E+01	4.11E+00	6.52E+07	8.17E+07	2.65	25.9	0.379	8	-7.00E-02	6.35E+02	1.79E-01
239	2.22E+01	4.23E+00	6.46E+07	8.20E+07	2.64	25.85	0.3773	7.9	-7.00E-02	6.55E+02	1.81E-01
240	2.19E+01	4.22E+00	6.40E+07	8.21E+07	2.63	25.8	0.3757	7.8	-7.00E-02	4.61E+02	1.84E-01
241	2.11E+01	4.24E+00	6.35E+07	8.24E+07	2.63	25.75	0.3729	7.8	-7.00E-02	2.92E+02	1.86E-01
242	2.04E+01	4.35E+00	6.30E+07	8.29E+07	2.62	25.7	0.3712	7.7	-7.00E-02	3.60E+02	1.89E-01
243	1.99E+01	4.42E+00	6.25E+07	8.35E+07	2.62	25.65	0.3696	7.6	-7.00E-02	3.89E+02	1.92E-01
244	1.93E+01	4.53E+00	6.19E+07	8.42E+07	2.61	25.55	0.3674	7.5	-8.00E-02	3.23E+02	1.96E-01
245	1.85E+01	4.64E+00	6.14E+07	8.48E+07	2.6	25.5	0.3658	7.5	-7.00E-02	1.79E+02	1.98E-01
246	1.77E+01	4.72E+00	6.09E+07	8.55E+07	2.6	25.45	0.3641	7.4	-8.00E-02	1.19E+02	2.02E-01
247	1.69E+01	4.80E+00	6.04E+07	8.62E+07	2.59	25.35	0.362	7.3	-7.00E-02	1.33E+02	2.06E-01

Cair (ppbv)	Evap (mm/d)	Case	Inheight (m)	Outheight (m)	Inflow (m ³ /s)	Outflow (m ³ /s)	lexchange	Makeup	Makeup_ mass	Lake area (m ²)
1.37E+00	8.81E+07	4	4.40E+00	1.21E+01	8.55E-02	1.71E-01	-4.27E+05	-2.75E+05	-5.45E+01	9.33E+06
1.38E+00	8.80E+07	4	4.40E+00	1.21E+01	0.00E+00	1.71E-01	-3.55E+05	-9.35E+04	-1.87E+01	9.33E+06
1.38E+00	8.79E+07	4	4.40E+00	1.21E+01	1.04E+00	1.64E-01	-8.78E-01	2.69E+05	4.64E-01	9.33E+06
1.38E+00	8.78E+07	4	4.40E+00	1.21E+01	1.04E+00	1.50E-01	-1.42E+05	-2.95E+03	-6.51E-01	9.33E+06
1.38E+00	8.76E+07	4	4.40E+00	1.21E+01	0.00E+00	1.43E-01	-1.42E+05	-3.13E+03	-7.02E-01	9.33E+06
1.38E+00	8.73E+07	4	4.40E+00	1.21E+01	0.00E+00	1.43E-01	-1.41E+05	-3.42E+03	-7.64E-01	9.34E+06
1.38E+00	8.70E+07	4	4.40E+00	1.21E+01	7.15E-02	1.43E-01	-7.06E+04	8.70E+04	1.51E-01	9.34E+06
1.38E+00	8.68E+07	4	4.40E+00	1.21E+01	7.15E-02	1.43E-01	7.15E-02	-3.91E+03	-8.59E-01	9.34E+06
1.39E+00	8.67E+07	4	4.40E+00	1.21E+01	7.85E-02	1.50E-01	7.15E-02	8.67E+04	1.52E-01	9.34E+06
1.39E+00	8.66E+07	4	4.40E+00	1.21E+01	6.28E-01	1.50E-01	1.41E+05	1.77E+05	3.10E-01	9.34E+06
1.40E+00	8.64E+07	4	4.40E+00	1.21E+01	9.49E-01	1.43E+00	-7.07E+04	-9.49E+04	-2.31E+01	9.34E+06
1.40E+00	8.61E+07	4	4.40E+00	1.21E+01	7.99E-01	4.00E+00	-1.41E+05	-2.76E+05	-6.80E+01	9.34E+06
1.40E+00	8.58E+07	4	4.40E+00	1.21E+01	4.00E-01	2.71E+00	7.06E+04	-4.76E+03	-1.16E+00	9.35E+06
1.41E+00	8.57E+07	4	4.40E+00	1.21E+01	0.00E+00	1.43E-01	-1.41E+05	-2.76E+05	-6.66E+01	9.35E+06
1.42E+00	8.57E+07	4	4.40E+00	1.21E+01	0.00E+00	4.36E+00	-4.23E+05	-7.28E+05	-1.74E+02	9.36E+06
1.42E+00	8.55E+07	4	4.40E+00	1.21E+01	5.14E-01	9.57E+00	-4.22E+05	-7.27E+05	-1.72E+02	9.38E+06
1.43E+00	8.52E+07	4	4.40E+00	1.21E+01	2.41E+00	1.10E+01	-2.10E+05	-5.46E+05	-1.32E+02	9.39E+06
1.44E+00	8.51E+07	4	4.40E+00	1.21E+01	6.59E+00	8.82E+00	4.91E+05	3.55E+05	6.53E-01	9.40E+06
1.44E+00	8.47E+07	4	4.40E+00	1.21E+01	1.12E+01	5.91E+00	7.75E+05	7.16E+05	1.33E+00	9.39E+06
1.46E+00	8.42E+07	4	4.40E+00	1.21E+01	9.93E+00	5.00E+00	4.95E+05	2.65E+05	4.98E-01	9.38E+06
1.47E+00	8.41E+07	4	4.40E+00	1.21E+01	3.47E+00	2.27E+00	3.55E+05	8.41E+04	1.59E-01	9.38E+06
1.48E+00	8.37E+07	4	4.40E+00	1.21E+01	7.15E-02	1.43E-01	4.27E+05	8.37E+04	1.60E-01	9.38E+06
1.48E+00	8.34E+07	4	4.40E+00	1.21E+01	1.43E-01	1.43E-01	3.57E+05	8.34E+04	1.61E-01	9.38E+06
1.50E+00	8.31E+07	4	4.40E+00	1.21E+01	3.00E-01	1.43E-01	4.29E+05	8.31E+04	1.63E-01	9.38E+06
1.50E+00	8.26E+07	4	4.40E+00	1.21E+01	2.56E+00	9.64E-01	6.46E+05	3.54E+05	6.99E-01	9.38E+06
1.52E+00	8.22E+07	4	4.40E+00	1.21E+01	3.36E+00	9.71E-01	6.48E+05	2.63E+05	5.26E-01	9.37E+06
1.53E+00	8.19E+07	4	4.40E+00	1.21E+01	1.58E+00	1.50E-01	5.78E+05	1.72E+05	3.49E-01	9.37E+06
1.54E+00	8.16E+07	4	4.40E+00	1.21E+01	5.50E-01	2.43E+00	1.88E+00	-5.51E+05	-1.39E+02	9.37E+06
1.56E+00	8.14E+07	4	4.40E+00	1.21E+01	1.01E+00	5.75E+00	1.45E+05	-3.70E+05	-9.16E+01	9.39E+06
1.57E+00	8.10E+07	4	4.40E+00	1.21E+01	2.61E+00	4.68E+00	5.81E+05	1.71E+05	3.62E-01	9.39E+06
1.59E+00	8.07E+07	4	4.40E+00	1.21E+01	1.59E+00	1.35E+00	4.37E+05	-9.49E+03	-2.20E+00	9.39E+06
1.61E+00	8.03E+07	4	4.40E+00	1.21E+01	7.07E-01	1.43E-01	6.58E+05	2.61E+05	5.68E-01	9.39E+06
1.63E+00	7.98E+07	4	4.40E+00	1.21E+01	1.90E+00	1.50E-01	7.34E+05	2.60E+05	5.78E-01	9.38E+06
1.64E+00	7.94E+07	4	4.40E+00	1.21E+01	2.06E+00	1.57E-01	5.89E+05	1.70E+05	3.82E-01	9.38E+06
1.66E+00	7.91E+07	4	4.40E+00	1.21E+01	1.44E+00	1.72E-01	6.66E+05	1.69E+05	3.87E-01	9.38E+06
1.68E+00	7.85E+07	4	4.40E+00	1.21E+01	1.92E+00	1.72E-01	7.43E+05	3.49E+05	8.16E-01	9.38E+06

Table C1. Model output from daily model inputs for Lake Perris, California, methyl *tert*-butyl ether—Continued

Time	C(Epi) (µg/L)	C(Hypol) (µg/L)	VolEpi (m ³)	VolHyp (m ³)	U (m/s)	Tw (°C)	kL (m/d)	MLD (kg/d)	dMLD/dt	Input	Cs (µg/L)
248	1.61E+01	4.88E+00	5.99E+07	8.68E+07	2.59	25.3	0.3604	7.3	-7.00E-02	2.24E+02	2.09E-01
249	1.57E+01	4.94E+00	5.94E+07	8.74E+07	2.58	25.25	0.3587	7.2	-7.00E-02	3.20E+02	2.13E-01
250	1.53E+01	5.00E+00	5.89E+07	8.80E+07	2.58	25.15	0.3566	7.1	-7.00E-02	2.92E+02	2.18E-01
251	1.47E+01	5.04E+00	5.84E+07	8.87E+07	2.58	25.1	0.355	7.1	-7.00E-02	1.62E+02	2.22E-01
252	1.40E+01	5.09E+00	5.79E+07	8.88E+07	2.57	25.05	0.3534	7	-6.00E-02	9.08E+01	2.26E-01
253	1.34E+01	5.07E+00	5.73E+07	8.88E+07	2.56	24.95	0.3513	6.9	-6.00E-02	1.13E+02	2.31E-01
254	1.28E+01	5.10E+00	5.69E+07	8.92E+07	2.56	24.85	0.3492	6.9	-5.00E-02	1.28E+02	2.37E-01
255	1.24E+01	5.10E+00	5.66E+07	8.95E+07	2.55	24.8	0.3476	6.8	-4.00E-02	2.64E+02	2.41E-01
256	1.22E+01	5.10E+00	5.63E+07	8.99E+07	2.55	24.75	0.346	6.8	-5.00E-02	4.11E+02	2.46E-01
257	1.21E+01	5.11E+00	5.60E+07	9.03E+07	2.55	24.65	0.345	6.7	-3.00E-02	3.12E+02	2.52E-01
258	1.18E+01	5.12E+00	5.58E+07	9.07E+07	2.54	24.55	0.3429	6.7	-2.00E-02	1.28E+02	2.58E-01
259	1.12E+01	5.12E+00	5.57E+07	9.11E+07	2.54	24.45	0.3409	6.7	-2.00E-02	4.82E+01	2.64E-01
260	1.06E+01	5.11E+00	5.56E+07	9.13E+07	2.54	24.35	0.3388	6.7	-1.00E-02	6.24E+01	2.71E-01
261	1.01E+01	5.11E+00	5.56E+07	9.16E+07	2.53	24.25	0.3367	6.7	0.00E+00	1.08E+02	2.78E-01
262	9.76E+00	5.09E+00	5.57E+07	9.17E+07	2.53	24.15	0.3357	6.7	1.00E-02	1.79E+02	2.85E-01
263	9.55E+00	5.08E+00	5.59E+07	9.18E+07	2.52	24.1	0.3342	6.7	3.00E-02	2.84E+02	2.91E-01
264	9.47E+00	5.06E+00	5.63E+07	9.22E+07	2.52	24.05	0.3327	6.7	3.00E-02	2.84E+02	2.97E-01
265	9.15E+00	5.07E+00	5.67E+07	9.29E+07	2.52	23.95	0.3317	6.8	5.00E-02	1.53E+02	3.06E-01
266	8.66E+00	5.08E+00	5.73E+07	9.32E+07	2.51	23.85	0.3296	6.8	7.00E-02	7.37E+01	3.14E-01
267	8.23E+00	5.06E+00	5.79E+07	9.26E+07	2.51	23.75	0.3276	6.9	8.00E-02	5.10E+01	3.22E-01
268	7.84E+00	5.04E+00	5.86E+07	9.19E+07	2.51	23.65	0.3266	7	1.00E-01	4.82E+01	3.31E-01
269	7.48E+00	5.03E+00	5.96E+07	9.19E+07	2.51	23.55	0.3246	7.1	1.10E-01	1.47E+02	3.39E-01
270	7.35E+00	5.01E+00	6.07E+07	9.19E+07	2.5	23.45	0.3226	7.2	1.40E-01	3.35E+02	3.49E-01
271	7.42E+00	5.00E+00	6.20E+07	9.18E+07	2.5	23.35	0.3216	7.4	1.50E-01	3.23E+02	3.58E-01
272	7.27E+00	4.98E+00	6.35E+07	9.15E+07	2.5	23.2	0.3202	7.5	1.80E-01	1.47E+02	3.70E-01
273	6.96E+00	4.97E+00	6.50E+07	9.04E+07	2.5	23.05	0.3177	7.7	2.00E-01	5.67E+01	3.81E-01
274	6.69E+00	4.96E+00	6.66E+07	8.89E+07	2.49	22.95	0.3157	7.9	2.20E-01	3.69E+01	3.91E-01
275	6.44E+00	4.95E+00	6.83E+07	8.71E+07	2.49	22.85	0.3148	8.2	2.50E-01	6.81E+01	4.03E-01
276	6.29E+00	4.94E+00	7.03E+07	8.51E+07	2.49	22.75	0.3138	8.4	2.80E-01	1.53E+02	4.14E-01
277	6.27E+00	4.93E+00	7.24E+07	8.30E+07	2.49	22.65	0.3128	8.7	3.10E-01	2.75E+02	4.25E-01
278	6.37E+00	4.92E+00	7.48E+07	8.07E+07	2.49	22.55	0.3109	9.1	3.30E-01	2.75E+02	4.37E-01
279	6.34E+00	4.91E+00	7.72E+07	7.82E+07	2.48	22.45	0.3089	9.4	3.70E-01	1.30E+02	4.48E-01
280	6.17E+00	4.90E+00	7.99E+07	7.55E+07	2.48	22.35	0.308	9.8	4.00E-01	5.10E+01	4.61E-01
281	5.99E+00	4.90E+00	8.28E+07	7.26E+07	2.48	22.2	0.3065	10.2	4.40E-01	5.10E+01	4.76E-01
282	5.83E+00	4.89E+00	8.59E+07	6.95E+07	2.48	22.05	0.3051	10.7	4.70E-01	5.96E+01	4.91E-01
283	5.71E+00	4.89E+00	8.91E+07	6.63E+07	2.48	21.95	0.3041	11.2	5.10E-01	1.11E+02	5.05E-01

Cair (ppbv)	Evap (mm/d)	Case	Inheight (m)	Outheight (m)	Inflow (m ³ /s)	Outflow (m ³ /s)	lexchange	Makeup	Makeup_ mass	Lake area (m ²)
1.70E+00	7.82E+07	4	4.40E+00	1.21E+01	2.23E+00	1.57E-01	5.96E+05	1.69E+05	4.00E-01	9.37E+06
1.73E+00	7.78E+07	4	4.40E+00	1.21E+01	1.61E+00	1.72E-01	5.97E+05	1.68E+05	4.07E-01	9.37E+06
1.75E+00	7.73E+07	4	4.40E+00	1.21E+01	1.12E+00	1.64E-01	5.98E+05	1.68E+05	4.15E-01	9.37E+06
1.77E+00	7.69E+07	4	4.40E+00	1.21E+01	2.06E+00	1.50E-01	6.75E+05	3.48E+05	8.77E-01	9.37E+06
1.80E+00	7.67E+07	4	4.40E+00	1.21E+01	1.67E+00	1.57E-01	-4.50E+05	-1.01E+06	-1.60E+02	9.37E+06
1.83E+00	7.62E+07	4	4.40E+00	1.21E+01	2.50E-01	1.64E-01	5.25E+05	1.66E+05	4.37E-01	9.38E+06
1.85E+00	7.57E+07	4	4.40E+00	1.21E+01	2.50E-01	1.64E-01	3.01E+05	-1.45E+04	-2.11E+00	9.38E+06
1.88E+00	7.54E+07	4	4.40E+00	1.21E+01	0.00E+00	1.79E-01	3.01E+05	7.54E+04	2.06E-01	9.38E+06
1.91E+00	7.51E+07	4	4.40E+00	1.21E+01	4.07E-01	1.86E-01	4.52E+05	1.65E+05	4.61E-01	9.38E+06
1.94E+00	7.46E+07	4	4.40E+00	1.21E+01	1.94E+00	1.86E-01	3.77E+05	2.55E+05	7.29E-01	9.38E+06
1.96E+00	7.41E+07	4	4.40E+00	1.21E+01	3.37E+00	1.86E-01	4.54E+05	4.35E+05	1.27E+00	9.38E+06
1.99E+00	7.35E+07	4	4.40E+00	1.21E+01	2.72E+00	1.71E-01	2.27E+05	1.64E+05	4.91E-01	9.37E+06
2.03E+00	7.30E+07	4	4.40E+00	1.21E+01	2.26E+00	1.86E-01	3.03E+05	3.44E+05	1.06E+00	9.37E+06
2.06E+00	7.24E+07	4	4.40E+00	1.21E+01	2.43E+00	1.93E-01	1.52E+05	2.53E+05	7.99E-01	9.36E+06
2.10E+00	7.20E+07	4	4.40E+00	1.21E+01	2.73E+00	1.79E-01	1.52E+05	3.43E+05	1.11E+00	9.36E+06
2.13E+00	7.16E+07	4	4.40E+00	1.21E+01	4.02E+00	1.86E-01	7.59E+04	4.34E+05	1.43E+00	9.35E+06
2.17E+00	7.12E+07	4	4.40E+00	1.21E+01	8.83E+00	1.93E-01	6.84E+05	1.16E+06	3.91E+00	9.34E+06
2.21E+00	7.06E+07	4	4.40E+00	1.21E+01	1.33E+01	1.79E-01	6.10E+05	1.25E+06	4.34E+00	9.32E+06
2.25E+00	7.00E+07	4	4.40E+00	1.21E+01	1.06E+01	1.86E-01	-1.04E+01	7.08E+05	2.52E+00	9.30E+06
2.29E+00	6.95E+07	4	4.40E+00	1.21E+01	3.80E+00	1.93E-01	-1.22E+06	-6.59E+05	-6.15E+01	9.30E+06
2.33E+00	6.91E+07	4	4.40E+00	1.21E+01	4.75E+00	1.79E-01	-7.59E+04	8.89E+05	3.33E+00	9.30E+06
2.37E+00	6.85E+07	4	4.40E+00	1.21E+01	1.11E+01	1.71E-01	7.59E+04	1.16E+06	4.48E+00	9.28E+06
2.42E+00	6.78E+07	4	4.40E+00	1.21E+01	1.33E+01	1.79E-01	-7.59E+04	1.26E+06	4.97E+00	9.26E+06
2.46E+00	6.73E+07	4	4.40E+00	1.21E+01	1.41E+01	1.79E-01	-1.52E+05	1.26E+06	5.12E+00	9.23E+06
2.50E+00	6.65E+07	4	4.40E+00	1.21E+01	1.42E+01	1.79E-01	-5.31E+05	1.08E+06	4.52E+00	9.21E+06
2.55E+00	6.58E+07	4	4.40E+00	1.21E+01	1.37E+01	1.86E-01	-1.51E+06	6.58E+04	2.85E-01	9.20E+06
2.60E+00	6.53E+07	4	4.40E+00	1.21E+01	1.06E+01	1.79E-01	-1.65E+06	6.53E+04	2.90E-01	9.20E+06
2.65E+00	6.50E+07	4	4.40E+00	1.21E+01	4.25E+00	1.71E-01	-1.86E+06	6.49E+04	2.97E-01	9.20E+06
2.70E+00	6.46E+07	4	4.40E+00	1.21E+01	1.31E+00	1.64E-01	-2.07E+06	6.46E+04	3.03E-01	9.20E+06
2.75E+00	6.42E+07	4	4.40E+00	1.21E+01	1.48E+00	1.64E-01	-2.26E+06	6.42E+04	3.10E-01	9.20E+06
2.79E+00	6.37E+07	4	4.40E+00	1.21E+01	1.46E+00	1.79E-01	-2.37E+06	6.37E+04	3.16E-01	9.20E+06
2.84E+00	6.33E+07	4	4.40E+00	1.21E+01	2.15E+00	1.86E-01	-2.62E+06	6.33E+04	3.22E-01	9.20E+06
2.90E+00	6.29E+07	4	4.40E+00	1.21E+01	2.67E+00	1.86E-01	-2.78E+06	6.29E+04	3.29E-01	9.20E+06
2.95E+00	6.23E+07	4	4.40E+00	1.21E+01	1.49E+00	1.86E-01	-3.00E+06	6.23E+04	3.37E-01	9.20E+06
3.01E+00	6.18E+07	4	4.40E+00	1.21E+01	9.30E-02	1.86E-01	-3.14E+06	6.18E+04	3.45E-01	9.20E+06
3.07E+00	6.14E+07	4	4.40E+00	1.21E+01	8.55E-02	1.79E-01	-3.33E+06	6.14E+04	3.52E-01	9.20E+06

Table C1. Model output from daily model inputs for Lake Perris, California, methyl *tert*-butyl ether—Continued

Time	C(Epil) (µg/L)	C(Hypol) (µg/L)	VolEpi (m ³)	VolHyp (m ³)	U (m/s)	Tw (°C)	kL (m/d)	MLD (kg/d)	dMLD/dt	Input	Cs (µg/L)
284	5.67E+00	4.88E+00	9.26E+07	6.28E+07	2.48	21.85	0.3032	11.7	5.60E-01	2.01E+02	5.18E-01
285	5.70E+00	4.88E+00	9.62E+07	5.92E+07	2.48	21.75	0.3022	12.3	5.90E-01	2.24E+02	5.33E-01
286	5.69E+00	4.88E+00	9.99E+07	5.55E+07	2.48	21.6	0.3008	12.9	6.40E-01	1.30E+02	5.50E-01
287	5.59E+00	4.88E+00	1.04E+08	5.15E+07	2.48	21.45	0.2984	13.5	6.90E-01	4.82E+01	5.68E-01
288	5.47E+00	4.88E+00	1.08E+08	4.75E+07	2.47	21.35	0.2965	14.3	7.30E-01	3.40E+01	5.83E-01
289	5.36E+00	4.88E+00	1.12E+08	4.33E+07	2.47	21.25	0.2955	15	7.90E-01	5.96E+01	5.99E-01
290	5.31E+00	4.88E+00	1.16E+08	3.91E+07	2.47	21.1	0.2941	15.8	8.40E-01	1.30E+02	6.18E-01
291	5.31E+00	4.88E+00	1.20E+08	3.54E+07	2.47	20.95	0.2927	16.6	6.70E-01	1.96E+02	6.38E-01
292	5.34E+00	4.88E+00	1.23E+08	3.22E+07	2.47	20.85	0.2918	17.3	6.80E-01	1.56E+02	6.54E-01
293	5.30E+00	4.88E+00	1.26E+08	2.92E+07	2.47	20.7	0.2903	17.9	6.70E-01	6.24E+01	6.75E-01
294	5.22E+00	4.88E+00	1.29E+08	2.64E+07	2.47	20.55	0.2889	18.6	6.80E-01	2.27E+01	6.96E-01
295	5.14E+00	4.88E+00	1.32E+08	2.37E+07	2.47	20.45	0.288	19.3	6.70E-01	2.55E+01	7.14E-01
296	5.07E+00	4.88E+00	1.34E+08	2.11E+07	2.47	20.35	0.2879	20	6.80E-01	3.40E+01	7.32E-01
297	5.01E+00	4.88E+00	1.37E+08	1.87E+07	2.48	20.2	0.2874	20.6	6.70E-01	5.96E+01	7.55E-01
298	4.98E+00	4.88E+00	1.39E+08	1.63E+07	2.48	20.05	0.286	21.3	6.80E-01	1.08E+02	7.77E-01
299	4.97E+00	4.88E+00	1.41E+08	1.41E+07	2.48	19.95	0.285	22	6.70E-01	8.22E+01	7.97E-01
300	4.92E+00	4.88E+00	1.43E+08	1.19E+07	2.48	19.8	0.2836	22.7	6.80E-01	2.84E+01	8.21E-01
301	4.87E+00	4.88E+00	1.45E+08	9.51E+06	2.48	19.65	0.2822	23.5	1.00E+00	1.99E+01	8.45E-01
302	4.81E+00	4.88E+00	1.47E+08	6.90E+06	2.48	19.55	0.2812	24.5	1.00E+00	1.13E+01	8.66E-01
303	4.75E+00	4.88E+00	1.50E+08	4.31E+06	2.48	19.4	0.2798	25.6	1.25E+00	2.27E+01	8.91E-01
304	4.71E+00	4.88E+00	1.53E+08	1.49E+06	2.48	19.25	0.2784	13.1	-2.63E+01	6.81E+01	9.17E-01
305	4.66E+00	4.66E+00	1.54E+08	2.43E-01	2.48	19.15	0.2774	0	0.00E+00	1.33E+02	9.39E-01
306	4.68E+00	4.68E+00	1.54E+08	0.00E+00	2.49	19	0.2769	0	0.00E+00	1.11E+02	9.65E-01
307	4.65E+00	4.65E+00	1.54E+08	0.00E+00	2.49	18.85	0.2763	0	0.00E+00	3.40E+01	9.93E-01
308	4.60E+00	4.60E+00	1.54E+08	0.00E+00	2.49	18.7	0.2749	0	0.00E+00	2.27E+01	1.02E+00
309	4.57E+00	4.57E+00	1.54E+08	0.00E+00	2.49	18.55	0.2735	0	0.00E+00	9.36E+01	1.05E+00
310	4.58E+00	4.58E+00	1.54E+08	0.00E+00	2.49	18.45	0.2725	0	0.00E+00	1.08E+02	1.07E+00
311	4.57E+00	4.57E+00	1.54E+08	0.00E+00	2.49	18.3	0.2711	0	0.00E+00	7.37E+01	1.10E+00
312	4.57E+00	4.57E+00	1.54E+08	0.00E+00	2.49	18.15	0.2697	0	0.00E+00	1.28E+02	1.13E+00
313	4.60E+00	4.60E+00	1.54E+08	0.00E+00	2.5	18.05	0.2696	0	0.00E+00	1.50E+02	1.15E+00
314	4.62E+00	4.62E+00	1.54E+08	0.00E+00	2.5	17.9	0.269	0	0.00E+00	1.11E+02	1.18E+00
315	4.61E+00	4.61E+00	1.54E+08	0.00E+00	2.5	17.75	0.2676	0	0.00E+00	5.67E+01	1.22E+00
316	4.58E+00	4.58E+00	1.54E+08	0.00E+00	2.5	17.65	0.2666	0	0.00E+00	2.84E+01	1.24E+00
317	4.55E+00	4.55E+00	1.54E+08	0.00E+00	2.5	17.5	0.2652	0	0.00E+00	2.84E+01	1.27E+00
318	4.51E+00	4.51E+00	1.54E+08	0.00E+00	2.5	17.35	0.2638	0	0.00E+00	4.82E+01	1.30E+00
319	4.50E+00	4.50E+00	1.54E+08	0.00E+00	2.5	17.2	0.2631	0	0.00E+00	7.66E+01	1.33E+00

Cair (ppbv)	Evap (mm/d)	Case	Inheight (m)	Outheight (m)	Inflow (m ³ /s)	Outflow (m ³ /s)	lexchange	Makeup	Makeup_ mass	Lake area (m ²)
3.12E+00	6.11E+07	4	4.40E+00	1.21E+01	8.55E-02	1.71E-01	-3.56E+06	6.11E+04	3.59E-01	9.20E+06
3.18E+00	6.07E+07	4	4.40E+00	1.21E+01	9.30E-02	1.79E-01	-3.65E+06	6.07E+04	3.67E-01	9.20E+06
3.24E+00	6.02E+07	4	4.40E+00	1.21E+01	9.30E-02	1.86E-01	-3.85E+06	6.02E+04	3.76E-01	9.20E+06
3.30E+00	5.96E+07	4	4.40E+00	1.21E+01	0.00E+00	1.86E-01	-4.01E+06	5.96E+04	3.84E-01	9.20E+06
3.36E+00	5.91E+07	4	4.40E+00	1.21E+01	0.00E+00	1.79E-01	-4.10E+06	5.91E+04	3.91E-01	9.20E+06
3.42E+00	5.88E+07	4	4.40E+00	1.21E+01	8.55E-02	1.71E-01	-4.22E+06	5.88E+04	3.99E-01	9.20E+06
3.48E+00	5.82E+07	4	4.40E+00	1.21E+01	8.55E-02	1.71E-01	-4.24E+06	5.82E+04	4.08E-01	9.20E+06
3.54E+00	5.77E+07	3	4.40E+00	1.21E+01	8.55E-02	1.71E-01	-3.21E+06	5.77E+04	4.18E-01	9.20E+06
3.60E+00	5.74E+07	3	4.40E+00	1.21E+01	8.55E-02	1.79E-01	-3.10E+06	5.74E+04	4.26E-01	9.20E+06
3.67E+00	5.69E+07	3	4.40E+00	1.21E+01	0.00E+00	1.79E-01	-2.90E+06	5.69E+04	4.35E-01	9.20E+06
3.73E+00	5.64E+07	3	4.40E+00	1.21E+01	0.00E+00	1.79E-01	-2.80E+06	5.64E+04	4.45E-01	9.20E+06
3.79E+00	5.60E+07	3	4.40E+00	1.21E+01	0.00E+00	1.79E-01	-2.61E+06	5.60E+04	4.53E-01	9.20E+06
3.85E+00	5.57E+07	3	4.40E+00	1.21E+01	0.00E+00	1.79E-01	-2.51E+06	5.57E+04	4.63E-01	9.20E+06
3.92E+00	5.53E+07	3	4.40E+00	1.21E+01	0.00E+00	1.86E-01	-2.37E+06	-3.67E+04	-2.08E+00	9.20E+06
3.98E+00	5.48E+07	3	4.40E+00	1.21E+01	0.00E+00	1.79E-01	-2.34E+06	-2.21E+05	-1.25E+01	9.21E+06
4.05E+00	5.45E+07	3	4.40E+00	1.21E+01	0.00E+00	1.86E-01	-2.20E+06	-3.13E+05	-1.77E+01	9.21E+06
4.12E+00	5.41E+07	3	4.40E+00	1.21E+01	0.00E+00	1.93E-01	-2.06E+06	-2.22E+05	-1.24E+01	9.22E+06
4.18E+00	5.36E+07	1	4.40E+00	1.21E+01	0.00E+00	1.86E-01	-2.76E+06	-2.22E+05	-1.22E+01	9.23E+06
4.25E+00	5.33E+07	1	4.40E+00	1.21E+01	0.00E+00	1.86E-01	-2.48E+06	-1.30E+05	-7.10E+00	9.23E+06
4.31E+00	5.28E+07	1	4.40E+00	1.21E+01	4.07E-01	1.79E-01	-2.69E+06	1.45E+05	1.46E+00	9.23E+06
4.38E+00	5.24E+07	4	4.40E+00	1.21E+01	1.14E+00	1.71E-01	-2.97E+06	1.45E+05	1.51E+00	9.23E+06
4.44E+00	5.20E+07	4	4.40E+00	1.21E+01	1.46E+00	1.64E-01	-1.30E+00	1.44E+05	1.53E+00	9.23E+06
4.50E+00	5.16E+07	4	4.40E+00	1.21E+01	8.06E-01	1.57E-01	-6.49E-01	5.16E+04	5.65E-01	9.23E+06
4.57E+00	5.12E+07	4	4.40E+00	1.21E+01	7.44E-02	1.57E-01	8.26E-02	5.12E+04	5.77E-01	9.23E+06
4.63E+00	5.07E+07	4	4.40E+00	1.21E+01	4.49E-01	1.65E-01	-2.85E-01	5.07E+04	5.88E-01	9.23E+06
4.70E+00	5.03E+07	4	4.40E+00	1.21E+01	1.42E-01	1.58E-01	1.59E-02	5.01E+04	6.04E-01	9.23E+06
4.76E+00	5.00E+07	4	4.40E+00	1.21E+01	3.88E-02	1.68E-01	1.29E-01	4.99E+04	6.11E-01	9.23E+06
4.82E+00	4.95E+07	4	4.40E+00	1.21E+01	1.44E-01	1.44E-01	0.00E+00	4.92E+04	6.25E-01	9.23E+06
4.88E+00	4.91E+07	4	4.40E+00	1.21E+01	1.20E-01	1.57E-01	3.69E-02	4.89E+04	6.36E-01	9.23E+06
4.94E+00	4.88E+07	4	4.40E+00	1.21E+01	4.55E-02	1.57E-01	1.12E-01	4.86E+04	6.48E-01	9.23E+06
5.00E+00	4.84E+07	4	4.40E+00	1.21E+01	1.57E-01	1.57E-01	0.00E+00	4.79E+04	6.63E-01	9.23E+06
5.06E+00	4.80E+07	4	4.40E+00	1.21E+01	1.57E-01	1.57E-01	0.00E+00	4.79E+04	6.63E-01	9.23E+06
5.12E+00	4.77E+07	4	4.40E+00	1.21E+01	1.57E-01	1.57E-01	0.00E+00	4.76E+04	6.72E-01	9.23E+06
5.17E+00	4.72E+07	4	4.40E+00	1.21E+01	1.66E-01	1.66E-01	0.00E+00	4.72E+04	6.83E-01	9.23E+06
5.22E+00	4.68E+07	4	4.40E+00	1.21E+01	8.55E-02	1.50E-01	6.40E-02	-4.49E+04	-2.30E+00	9.23E+06
5.28E+00	4.64E+07	4	4.40E+00	1.21E+01	0.00E+00	1.47E-01	1.47E-01	-4.53E+04	-2.31E+00	9.23E+06

Table C1. Model output from daily model inputs for Lake Perris, California, methyl *tert*-butyl ether—Continued

Time	C(Epil) (µg/L)	C(Hypol) (µg/L)	VolEpi (m ³)	VolHyp (m ³)	U (m/s)	Tw (°C)	kL (m/d)	MLD (kg/d)	dMLD/dt	Input	Cs (µg/L)
320	4.50E+00	4.50E+00	1.54E+08	0.00E+00	2.51	17.05	0.2625	0	0.00E+00	6.52E+01	1.37E+00
321	4.48E+00	4.48E+00	1.54E+08	0.00E+00	2.51	16.95	0.2616	0	0.00E+00	3.12E+01	1.39E+00
322	4.44E+00	4.44E+00	1.54E+08	0.00E+00	2.51	16.8	0.2602	0	0.00E+00	1.70E+01	1.42E+00
323	4.40E+00	4.40E+00	1.54E+08	0.00E+00	2.51	16.65	0.2587	0	0.00E+00	1.70E+01	1.45E+00
324	4.36E+00	4.36E+00	1.55E+08	0.00E+00	2.52	16.55	0.2586	0	0.00E+00	1.99E+01	1.48E+00
325	4.33E+00	4.33E+00	1.55E+08	0.00E+00	2.52	16.4	0.2579	0	0.00E+00	3.69E+01	1.51E+00
326	4.30E+00	4.30E+00	1.55E+08	0.00E+00	2.52	16.25	0.2565	0	0.00E+00	6.52E+01	1.54E+00
327	4.30E+00	4.30E+00	1.55E+08	0.00E+00	2.52	16.15	0.2555	0	0.00E+00	6.24E+01	1.57E+00
328	4.29E+00	4.29E+00	1.55E+08	0.00E+00	2.52	16	0.2541	0	0.00E+00	3.97E+01	1.60E+00
329	4.27E+00	4.27E+00	1.55E+08	0.00E+00	2.52	15.85	0.2527	0	0.00E+00	3.40E+01	1.63E+00
330	4.25E+00	4.25E+00	1.55E+08	0.00E+00	2.52	15.75	0.2517	0	0.00E+00	2.84E+01	1.65E+00
331	4.23E+00	4.23E+00	1.55E+08	0.00E+00	2.52	15.65	0.2516	0	0.00E+00	6.52E+01	1.67E+00
332	4.25E+00	4.25E+00	1.55E+08	0.00E+00	2.53	15.5	0.2509	0	0.00E+00	1.16E+02	1.70E+00
333	4.28E+00	4.28E+00	1.55E+08	0.00E+00	2.53	15.35	0.2495	0	0.00E+00	9.93E+01	1.73E+00
334	4.29E+00	4.29E+00	1.55E+08	0.00E+00	2.53	15.25	0.2485	0	0.00E+00	5.39E+01	1.75E+00
335	4.27E+00	4.27E+00	1.55E+08	0.00E+00	2.53	15.15	0.2476	0	0.00E+00	2.84E+01	1.77E+00
336	4.25E+00	4.25E+00	1.55E+08	0.00E+00	2.53	15	0.2462	0	0.00E+00	1.70E+01	1.80E+00
337	4.22E+00	4.22E+00	1.55E+08	0.00E+00	2.53	14.85	0.2447	0	0.00E+00	1.13E+01	1.82E+00
338	4.19E+00	4.19E+00	1.55E+08	0.00E+00	2.53	14.75	0.2438	0	0.00E+00	1.42E+01	1.84E+00
339	4.17E+00	4.17E+00	1.55E+08	0.00E+00	2.53	14.65	0.2428	0	0.00E+00	1.42E+01	1.85E+00
340	4.14E+00	4.14E+00	1.55E+08	0.00E+00	2.53	14.5	0.2414	0	0.00E+00	2.27E+01	1.87E+00
341	4.13E+00	4.13E+00	1.55E+08	0.00E+00	2.53	14.35	0.24	0	0.00E+00	3.97E+01	1.90E+00
342	4.12E+00	4.12E+00	1.55E+08	0.00E+00	2.53	14.25	0.2391	0	0.00E+00	2.84E+01	1.91E+00
343	4.10E+00	4.10E+00	1.55E+08	0.00E+00	2.53	14.15	0.2381	0	0.00E+00	5.67E+00	1.91E+00
344	4.07E+00	4.07E+00	1.55E+08	0.00E+00	2.53	14.05	0.2372	0	0.00E+00	2.84E+00	1.92E+00
345	4.04E+00	4.04E+00	1.55E+08	0.00E+00	2.53	13.95	0.2363	0	0.00E+00	8.51E+00	1.92E+00
346	4.02E+00	4.02E+00	1.55E+08	0.00E+00	2.52	13.85	0.2346	0	0.00E+00	2.27E+01	1.92E+00
347	4.01E+00	4.01E+00	1.55E+08	0.00E+00	2.52	13.75	0.233	0	0.00E+00	3.40E+01	1.92E+00
348	4.00E+00	4.00E+00	1.55E+08	0.00E+00	2.52	13.65	0.232	0	0.00E+00	2.55E+01	1.92E+00
349	3.98E+00	3.98E+00	1.55E+08	0.00E+00	2.52	13.55	0.2311	0	0.00E+00	1.42E+01	1.91E+00
350	3.96E+00	3.96E+00	1.55E+08	0.00E+00	2.52	13.45	0.2302	0	0.00E+00	8.51E+00	1.90E+00
351	3.94E+00	3.94E+00	1.55E+08	0.00E+00	2.51	13.35	0.2286	0	0.00E+00	8.51E+00	1.89E+00
352	3.92E+00	3.92E+00	1.55E+08	0.00E+00	2.51	13.25	0.2269	0	0.00E+00	8.51E+00	1.87E+00
353	3.90E+00	3.90E+00	1.55E+08	0.00E+00	2.51	13.15	0.226	0	0.00E+00	1.99E+01	1.85E+00
354	3.89E+00	3.89E+00	1.55E+08	0.00E+00	2.5	13.05	0.2244	0	0.00E+00	2.84E+01	1.83E+00
355	3.87E+00	3.87E+00	1.55E+08	0.00E+00	2.5	12.95	0.2229	0	0.00E+00	1.70E+01	1.80E+00

Cair (ppbv)	Evap (mm/d)	Case	Inheight (m)	Outheight (m)	Inflow (m ³ /s)	Outflow (m ³ /s)	lexchange	Makeup	Makeup_ mass	Lake area (m ²)
5.33E+00	4.61E+07	4	4.40E+00	1.21E+01	7.85E-02	1.57E-01	7.85E-02	4.61E+04	7.14E-01	9.23E+06
5.38E+00	4.58E+07	4	4.40E+00	1.21E+01	1.80E-01	1.58E-01	-2.16E-02	4.56E+04	7.26E-01	9.23E+06
5.43E+00	4.54E+07	4	4.40E+00	1.21E+01	4.33E-01	1.68E-01	-2.65E-01	4.52E+04	7.34E-01	9.23E+06
5.47E+00	4.49E+07	4	4.40E+00	1.21E+01	2.12E+00	1.71E-01	-1.95E+00	4.12E+05	6.79E+00	9.23E+06
5.52E+00	4.47E+07	4	4.40E+00	1.21E+01	4.25E+00	1.71E-01	-4.08E+00	4.12E+05	6.92E+00	9.22E+06
5.56E+00	4.43E+07	4	4.40E+00	1.21E+01	8.47E+00	1.64E-01	-8.31E+00	6.88E+05	1.18E+01	9.21E+06
5.60E+00	4.38E+07	4	4.40E+00	1.21E+01	6.53E+00	1.72E-01	-6.36E+00	4.38E+04	7.67E-01	9.20E+06
5.64E+00	4.35E+07	4	4.40E+00	1.21E+01	4.17E-01	1.77E-01	-2.41E-01	4.35E+04	7.75E-01	9.20E+06
5.67E+00	4.31E+07	4	4.40E+00	1.21E+01	1.71E-01	1.71E-01	0.00E+00	4.30E+04	7.84E-01	9.20E+06
5.70E+00	4.27E+07	4	4.40E+00	1.21E+01	2.93E-02	1.83E-01	1.54E-01	4.26E+04	7.91E-01	9.20E+06
5.72E+00	4.25E+07	4	4.40E+00	1.21E+01	4.62E-02	1.71E-01	1.25E-01	4.23E+04	8.01E-01	9.20E+06
5.75E+00	4.22E+07	4	4.40E+00	1.21E+01	9.46E-02	1.78E-01	8.31E-02	4.19E+04	8.09E-01	9.20E+06
5.77E+00	4.19E+07	4	4.40E+00	1.21E+01	0.00E+00	1.86E-01	1.86E-01	4.15E+04	8.15E-01	9.20E+06
5.79E+00	4.15E+07	4	4.40E+00	1.21E+01	0.00E+00	1.86E-01	1.86E-01	4.13E+04	8.19E-01	9.20E+06
5.79E+00	4.13E+07	4	4.40E+00	1.21E+01	0.00E+00	1.66E-01	1.66E-01	4.09E+04	8.24E-01	9.20E+06
5.80E+00	4.10E+07	4	4.40E+00	1.21E+01	0.00E+00	1.66E-01	1.66E-01	4.09E+04	8.24E-01	9.20E+06
5.81E+00	4.06E+07	4	4.40E+00	1.21E+01	1.60E-01	1.70E-01	1.03E-02	4.03E+04	8.30E-01	9.20E+06
5.81E+00	4.02E+07	4	4.40E+00	1.21E+01	1.54E-01	1.54E-01	0.00E+00	3.98E+04	8.35E-01	9.20E+06
5.81E+00	4.00E+07	4	4.40E+00	1.21E+01	1.54E-01	1.54E-01	0.00E+00	3.98E+04	8.35E-01	9.20E+06
5.80E+00	3.97E+07	4	4.40E+00	1.21E+01	2.90E-02	1.54E-01	1.25E-01	3.92E+04	8.38E-01	9.20E+06
5.79E+00	3.93E+07	4	4.40E+00	1.21E+01	2.90E-02	1.54E-01	1.25E-01	3.92E+04	8.38E-01	9.20E+06
5.77E+00	3.90E+07	4	4.40E+00	1.21E+01	1.61E-01	1.61E-01	0.00E+00	3.88E+04	8.37E-01	9.20E+06
5.75E+00	3.87E+07	4	4.40E+00	1.21E+01	1.45E+00	1.71E-01	-1.28E+00	3.84E+04	8.34E-01	9.20E+06
5.71E+00	3.85E+07	4	4.40E+00	1.21E+01	1.45E+00	1.71E-01	-1.28E+00	3.84E+04	8.34E-01	9.20E+06
5.68E+00	3.82E+07	4	4.40E+00	1.21E+01	1.57E-01	1.57E-01	0.00E+00	3.76E+04	8.21E-01	9.20E+06
5.63E+00	3.80E+07	4	4.40E+00	1.21E+01	1.57E-01	1.57E-01	0.00E+00	3.76E+04	8.21E-01	9.20E+06
5.58E+00	3.77E+07	4	4.40E+00	1.21E+01	1.57E-01	1.57E-01	0.00E+00	3.76E+04	8.21E-01	9.20E+06
5.53E+00	3.74E+07	4	4.40E+00	1.21E+01	0.00E+00	1.57E-01	1.57E-01	3.70E+04	8.04E-01	9.20E+06
5.47E+00	3.72E+07	4	4.40E+00	1.21E+01	0.00E+00	1.57E-01	1.57E-01	3.70E+04	8.04E-01	9.20E+06
5.40E+00	3.69E+07	4	4.40E+00	1.21E+01	0.00E+00	1.57E-01	1.57E-01	-5.51E+04	-2.49E+00	9.20E+06
5.32E+00	3.67E+07	4	4.40E+00	1.21E+01	2.32E-02	1.59E-01	1.36E-01	-5.54E+04	-2.48E+00	9.21E+06
5.24E+00	3.64E+07	4	4.40E+00	1.21E+01	8.55E-02	1.64E-01	7.85E-02	3.64E+04	7.81E-01	9.21E+06
5.14E+00	3.62E+07	4	4.40E+00	1.21E+01	1.60E-01	1.60E-01	0.00E+00	3.61E+04	7.65E-01	9.21E+06
5.04E+00	3.59E+07	4	4.40E+00	1.21E+01	0.00E+00	1.56E-01	1.56E-01	3.58E+04	7.48E-01	9.21E+06
4.94E+00	3.57E+07	4	4.40E+00	1.21E+01	0.00E+00	1.43E-01	1.43E-01	-5.63E+04	-2.48E+00	9.21E+06
4.82E+00	3.54E+07	4	4.40E+00	1.21E+01	0.00E+00	1.50E-01	1.50E-01	3.54E+04	7.25E-01	9.21E+06

Table C1. Model output from daily model inputs for Lake Perris, California, methyl *tert*-butyl ether—Continued

Time	C(Epi) (µg/L)	C(Hypol) (µg/L)	VolEpi (m ³)	VolHyp (m ³)	U (m/s)	Tw (°C)	kL (m/d)	MLD (kg/d)	dMLD/dt	Input	Cs (µg/L)
356	3.85E+00	3.85E+00	1.55E+08	0.00E+00	2.5	12.85	0.2213	0	0.00E+00	8.51E+00	1.77E+00
357	3.83E+00	3.83E+00	1.55E+08	0.00E+00	2.49	12.75	0.2197	0	0.00E+00	8.51E+00	1.74E+00
358	3.81E+00	3.81E+00	1.55E+08	0.00E+00	2.49	12.65	0.2181	0	0.00E+00	8.51E+00	1.70E+00
359	3.79E+00	3.79E+00	1.55E+08	0.00E+00	2.48	12.6	0.2163	0	0.00E+00	1.99E+01	1.64E+00
360	3.78E+00	3.78E+00	1.55E+08	0.00E+00	2.47	12.55	0.2152	0	0.00E+00	3.69E+01	1.59E+00
361	3.78E+00	3.78E+00	1.55E+08	0.00E+00	2.46	12.45	0.2137	0	0.00E+00	4.82E+01	1.53E+00
362	3.78E+00	3.78E+00	1.55E+08	0.00E+00	2.46	12.35	0.2115	0	0.00E+00	4.82E+01	1.48E+00
363	3.77E+00	3.77E+00	1.55E+08	0.00E+00	2.45	12.3	0.2097	0	0.00E+00	2.84E+01	1.40E+00
364	3.75E+00	3.75E+00	1.55E+08	0.00E+00	2.44	12.25	0.208	0	0.00E+00	1.99E+01	1.32E+00
365	3.74E+00	3.74E+00	1.47E+08	0.00E+00	2.38	12.45	0.201	0	0.00E+00	3.12E+01	1.31E+00
366	3.73E+00	3.73E+00	1.39E+08	0.00E+00	2.33	12.65	0.1954	0	0.00E+00	2.27E+01	1.38E+00
367	3.70E+00	3.70E+00	1.39E+08	0.00E+00	2.33	12.6	0.1957	0	0.00E+00	8.51E+00	1.44E+00
368	3.68E+00	3.68E+00	1.38E+08	0.00E+00	2.34	12.55	0.196	0	0.00E+00	2.27E+01	1.50E+00
369	3.67E+00	3.67E+00	1.38E+08	0.00E+00	2.34	12.45	0.196	0	0.00E+00	3.40E+01	1.56E+00
370	3.67E+00	3.67E+00	1.38E+08	0.00E+00	2.34	12.4	0.1956	0	0.00E+00	1.70E+01	1.62E+00
371	3.64E+00	3.64E+00	1.38E+08	0.00E+00	2.34	12.35	0.1959	0	0.00E+00	0.00E+00	1.67E+00
372	3.62E+00	3.62E+00	1.38E+08	0.00E+00	2.35	12.3	0.1962	0	0.00E+00	5.67E+00	1.72E+00
373	3.60E+00	3.60E+00	1.38E+08	0.00E+00	2.35	12.3	0.1969	0	0.00E+00	2.27E+01	1.76E+00
374	3.60E+00	3.60E+00	1.38E+08	0.00E+00	2.36	12.25	0.1973	0	0.00E+00	3.69E+01	1.80E+00
375	3.61E+00	3.61E+00	1.38E+08	0.00E+00	2.37	12.2	0.1976	0	0.00E+00	7.37E+01	1.85E+00
376	3.64E+00	3.64E+00	1.38E+08	0.00E+00	2.37	12.2	0.1982	0	0.00E+00	6.52E+01	1.88E+00
377	3.64E+00	3.64E+00	1.38E+08	0.00E+00	2.38	12.15	0.1985	0	0.00E+00	1.70E+01	1.91E+00
378	3.62E+00	3.62E+00	1.38E+08	0.00E+00	2.38	12.1	0.1988	0	0.00E+00	5.67E+00	1.94E+00
379	3.60E+00	3.60E+00	1.38E+08	0.00E+00	2.39	12.1	0.1995	0	0.00E+00	2.84E+00	1.97E+00
380	3.58E+00	3.58E+00	1.38E+08	0.00E+00	2.4	12.1	0.2008	0	0.00E+00	1.13E+01	1.99E+00
381	3.57E+00	3.57E+00	1.38E+08	0.00E+00	2.4	12.05	0.2011	0	0.00E+00	3.12E+01	2.02E+00
382	3.58E+00	3.58E+00	1.38E+08	0.00E+00	2.4	12	0.2014	0	0.00E+00	8.79E+01	2.04E+00
383	3.64E+00	3.64E+00	1.38E+08	0.00E+00	2.41	12	0.2021	0	0.00E+00	1.39E+02	2.05E+00
384	3.70E+00	3.70E+00	1.37E+08	0.00E+00	2.41	12	0.2028	0	0.00E+00	8.51E+01	2.06E+00
385	3.71E+00	3.71E+00	1.37E+08	0.00E+00	2.42	12	0.2041	0	0.00E+00	1.70E+01	2.07E+00
386	3.69E+00	3.69E+00	1.38E+08	0.00E+00	2.43	12	0.2048	0	0.00E+00	8.51E+00	2.08E+00
387	3.67E+00	3.67E+00	1.38E+08	0.00E+00	2.44	12	0.2055	0	0.00E+00	5.67E+00	2.08E+00
388	3.65E+00	3.66E+00	7.13E+07	6.61E+07	2.45	12	0.2068	0.3	5.80E-01	2.27E+01	2.09E+00
389	3.68E+00	3.66E+00	5.92E+06	1.32E+08	2.45	12	0.2075	0.7	5.80E-01	3.40E+01	2.09E+00
390	3.63E+00	3.66E+00	7.57E+06	1.30E+08	2.46	12	0.2081	0.9	1.90E-01	4.25E+01	2.09E+00
391	3.75E+00	3.66E+00	9.21E+06	1.28E+08	2.46	12	0.2095	1.1	1.90E-01	3.40E+01	2.09E+00

Cair (ppbv)	Evap (mm/d)	Case	Inheight (m)	Outheight (m)	Inflow (m ³ /s)	Outflow (m ³ /s)	lexchange	Makeup	Makeup_ mass	Lake area (m ²)
4.70E+00	3.51E+07	4	4.40E+00	1.21E+01	8.46E-02	1.64E-01	7.89E-02	3.51E+04	7.06E-01	9.21E+06
4.56E+00	3.49E+07	4	4.40E+00	1.21E+01	1.49E-01	1.49E-01	0.00E+00	3.48E+04	6.87E-01	9.21E+06
4.41E+00	3.46E+07	4	4.40E+00	1.21E+01	1.29E-01	1.44E-01	1.57E-02	3.44E+04	6.52E-01	9.21E+06
4.25E+00	3.44E+07	4	4.40E+00	1.21E+01	2.03E-02	1.55E-01	1.35E-01	3.44E+04	6.32E-01	9.21E+06
4.08E+00	3.42E+07	4	4.40E+00	1.21E+01	0.00E+00	1.57E-01	1.57E-01	-5.77E+04	-2.47E+00	9.21E+06
3.91E+00	3.40E+07	4	4.40E+00	1.21E+01	9.27E-02	1.71E-01	7.83E-02	-5.81E+04	-2.49E+00	9.21E+06
3.72E+00	3.37E+07	4	4.40E+00	1.21E+01	2.50E-01	1.71E-01	-7.90E-02	1.26E+05	2.10E+00	9.21E+06
3.52E+00	3.35E+07	4	4.40E+00	1.21E+01	2.50E-01	1.71E-01	-7.90E-02	-5.84E+04	-2.50E+00	9.21E+06
3.31E+00	3.33E+07	4	4.40E+00	1.21E+01	5.04E-01	1.71E-01	-3.33E-01	-5.86E+04	-2.49E+00	9.21E+06
3.35E+00	3.35E+07	4	4.40E+00	1.21E+01	4.14E-01	1.05E+00	6.35E-01	-1.60E+07	-6.79E+02	9.37E+06
3.58E+00	3.38E+07	4	4.40E+00	1.21E+01	0.00E+00	1.77E+00	1.77E+00	-1.41E+05	-5.97E+00	9.53E+06
3.73E+00	3.38E+07	4	4.40E+00	1.21E+01	0.00E+00	1.78E+00	1.78E+00	-2.29E+05	-9.60E+00	9.54E+06
3.87E+00	3.38E+07	4	4.40E+00	1.21E+01	5.00E-02	2.11E+00	2.06E+00	-1.41E+05	-5.89E+00	9.54E+06
3.99E+00	3.37E+07	4	4.40E+00	1.21E+01	4.63E-02	2.15E+00	2.11E+00	-1.41E+05	-5.88E+00	9.55E+06
4.12E+00	3.36E+07	4	4.40E+00	1.21E+01	4.14E-01	1.90E+00	1.49E+00	-5.37E+04	-2.23E+00	9.55E+06
4.22E+00	3.36E+07	4	4.40E+00	1.21E+01	4.14E-01	2.14E+00	1.73E+00	-2.28E+05	-9.43E+00	9.55E+06
4.33E+00	3.35E+07	4	4.40E+00	1.21E+01	1.57E-01	2.05E+00	1.89E+00	-5.37E+04	-2.20E+00	9.56E+06
4.42E+00	3.36E+07	4	4.40E+00	1.21E+01	9.31E-02	6.46E-01	5.53E-01	-5.36E+04	-2.19E+00	9.56E+06
4.51E+00	3.11E+07	4	4.40E+00	1.21E+01	0.00E+00	1.93E-01	1.93E-01	3.11E+04	6.36E-01	8.85E+06
4.60E+00	3.10E+07	4	4.40E+00	1.21E+01	3.83E-01	1.52E-01	-2.32E-01	3.11E+04	6.54E-01	8.85E+06
4.67E+00	3.36E+07	4	4.40E+00	1.21E+01	4.71E-01	1.57E-01	-3.14E-01	1.21E+05	2.57E+00	9.56E+06
4.74E+00	3.35E+07	4	4.40E+00	1.21E+01	3.07E-01	1.50E-01	-1.57E-01	3.35E+04	7.27E-01	9.56E+06
4.80E+00	3.35E+07	4	4.40E+00	1.21E+01	7.15E-02	1.43E-01	7.15E-02	-5.37E+04	-2.21E+00	9.56E+06
4.86E+00	3.36E+07	4	4.40E+00	1.21E+01	3.79E-01	1.43E-01	-2.36E-01	1.21E+05	2.70E+00	9.56E+06
4.90E+00	3.37E+07	4	4.40E+00	1.21E+01	4.50E-01	1.43E-01	-3.07E-01	3.37E+04	7.59E-01	9.56E+06
4.95E+00	3.36E+07	4	4.40E+00	1.21E+01	3.33E-01	1.34E-01	-1.99E-01	3.36E+04	7.70E-01	9.56E+06
4.98E+00	3.36E+07	4	4.40E+00	1.21E+01	2.17E-01	1.43E-01	-7.44E-02	3.36E+04	7.77E-01	9.56E+06
5.02E+00	3.11E+07	4	4.40E+00	1.21E+01	0.00E+00	1.50E-01	1.50E-01	-1.43E+05	-5.91E+00	8.85E+06
5.04E+00	3.12E+07	4	4.40E+00	1.21E+01	0.00E+00	1.50E-01	1.50E-01	3.12E+04	7.30E-01	8.85E+06
5.06E+00	3.13E+07	4	4.40E+00	1.21E+01	8.57E-01	1.57E-01	-7.00E-01	1.18E+05	2.78E+00	8.85E+06
5.08E+00	3.38E+07	4	4.40E+00	1.21E+01	1.56E+00	1.64E-01	-1.40E+00	2.08E+05	4.91E+00	9.56E+06
5.08E+00	3.39E+07	4	4.40E+00	1.21E+01	7.07E-01	1.64E-01	-5.43E-01	-5.33E+04	-2.22E+00	9.56E+06
5.09E+00	3.40E+07	4	4.40E+00	1.21E+01	0.00E+00	1.57E-01	1.32E+08	-1.85E+05	-7.65E+00	9.56E+06
5.10E+00	3.40E+07	4	4.40E+00	1.21E+01	8.57E-01	1.57E-01	-1.48E+06	2.11E+05	5.00E+00	9.56E+06
5.10E+00	3.41E+07	4	4.40E+00	1.21E+01	1.25E+00	1.57E-01	-1.64E+06	3.41E+04	8.07E-01	9.56E+06
5.09E+00	3.42E+07	4	4.40E+00	1.21E+01	3.91E-01	1.57E-01	-1.64E+06	3.42E+04	8.09E-01	9.56E+06

Table C1. Model output from daily model inputs for Lake Perris, California, methyl *tert*-butyl ether—Continued

Time	C(Epi) ($\mu\text{g/L}$)	C(Hypol) ($\mu\text{g/L}$)	VolEpi (m^3)	VolHyp (m^3)	U (m/s)	Tw ($^{\circ}\text{C}$)	kL (m/d)	MLD (kg/d)	dMLD/dt	Input	Cs ($\mu\text{g/L}$)
392	3.59E+00	3.66E+00	1.08E+07	1.27E+08	2.47	12	0.2101	1.2	1.90E-01	1.42E+01	2.08E+00
393	3.49E+00	3.66E+00	1.08E+07	1.27E+08	2.47	12	0.2108	1.2	1.90E-01	1.99E+01	2.08E+00
394	3.41E+00	3.66E+00	9.16E+06	1.28E+08	2.49	12.05	0.2126	1	-1.80E-01	2.27E+01	2.06E+00
395	3.44E+00	3.66E+00	7.74E+06	1.30E+08	2.49	12.1	0.2137	0.9	-1.50E-01	5.96E+01	2.04E+00
396	4.15E+00	3.66E+00	6.53E+06	1.31E+08	2.5	12.1	0.2144	0.7	-1.50E-01	1.45E+02	2.04E+00
397	5.70E+00	3.67E+00	5.49E+06	1.32E+08	2.51	12.1	0.2157	0.6	-1.10E-01	1.59E+02	2.03E+00
398	6.07E+00	3.69E+00	4.71E+06	1.33E+08	2.51	12.15	0.2175	0.5	-1.10E-01	7.09E+01	2.01E+00
399	5.00E+00	3.69E+00	3.96E+06	1.34E+08	2.52	12.2	0.2186	0.4	-1.00E-01	1.99E+01	1.99E+00
400	4.07E+00	3.70E+00	3.53E+06	1.35E+08	2.52	12.2	0.2193	0.4	-1.00E-01	2.55E+01	1.97E+00
401	3.45E+00	3.70E+00	3.09E+06	1.36E+08	2.54	12.2	0.2207	0.3	-1.00E-01	2.84E+01	1.96E+00
402	3.16E+00	3.70E+00	2.66E+06	1.37E+08	2.54	12.25	0.2225	0.3	-1.00E-01	3.69E+01	1.94E+00
403	3.52E+00	3.69E+00	2.66E+06	1.37E+08	2.55	12.3	0.2236	0.3	0.00E+00	7.09E+01	1.91E+00
404	4.68E+00	3.70E+00	2.66E+06	1.38E+08	2.55	12.35	0.2247	0.3	0.00E+00	1.30E+02	1.89E+00
405	5.85E+00	3.70E+00	2.89E+06	1.38E+08	2.56	12.4	0.2266	0.3	5.00E-02	1.02E+02	1.86E+00
406	4.57E+00	3.70E+00	3.33E+06	1.38E+08	2.58	12.4	0.2279	0.4	5.00E-02	3.12E+01	1.85E+00
407	3.76E+00	3.70E+00	3.56E+06	1.38E+08	2.58	12.45	0.2298	0.4	5.00E-02	2.55E+01	1.82E+00
408	3.17E+00	3.70E+00	4.00E+06	1.38E+08	2.59	12.5	0.2309	0.5	1.00E-01	1.99E+01	1.79E+00
409	2.90E+00	3.70E+00	4.67E+06	1.38E+08	2.59	12.55	0.2321	0.5	1.00E-01	3.12E+01	1.76E+00
410	3.23E+00	3.70E+00	5.25E+06	1.37E+08	2.6	12.65	0.2344	0.6	8.00E-02	9.36E+01	1.73E+00
411	4.38E+00	3.70E+00	5.96E+06	1.37E+08	2.61	12.7	0.2363	0.7	8.00E-02	1.67E+02	1.70E+00
412	5.40E+00	3.70E+00	6.72E+06	1.37E+08	2.63	12.75	0.2381	0.8	9.00E-02	1.47E+02	1.68E+00
413	5.27E+00	3.70E+00	7.56E+06	1.36E+08	2.63	12.8	0.2393	0.8	9.00E-02	5.96E+01	1.65E+00
414	4.43E+00	3.70E+00	8.45E+06	1.36E+08	2.63	12.85	0.2405	0.9	1.00E-01	2.27E+01	1.62E+00
415	3.83E+00	3.70E+00	9.35E+06	1.36E+08	2.65	12.9	0.2424	1.1	1.00E-01	2.84E+01	1.59E+00
416	3.54E+00	3.70E+00	1.03E+07	1.36E+08	2.65	12.95	0.2443	1.2	1.00E-01	7.09E+01	1.57E+00
417	3.87E+00	3.70E+00	1.13E+07	1.35E+08	2.67	13.05	0.2467	1.3	1.20E-01	1.79E+02	1.53E+00
418	4.93E+00	3.70E+00	1.23E+07	1.35E+08	2.67	13.1	0.2486	1.4	1.20E-01	2.69E+02	1.50E+00
419	5.80E+00	3.70E+00	1.34E+07	1.34E+08	2.68	13.15	0.2499	1.5	1.20E-01	1.56E+02	1.48E+00
420	5.27E+00	3.70E+00	1.44E+07	1.33E+08	2.69	13.25	0.2516	1.6	1.20E-01	1.99E+01	1.44E+00
421	4.66E+00	3.70E+00	1.55E+07	1.33E+08	2.7	13.35	0.254	1.7	1.20E-01	1.99E+01	1.41E+00
422	4.13E+00	3.70E+00	1.66E+07	1.32E+08	2.7	13.4	0.256	1.9	1.20E-01	1.99E+01	1.38E+00
423	3.84E+00	3.70E+00	1.77E+07	1.31E+08	2.72	13.45	0.258	2	1.20E-01	2.27E+01	1.36E+00
424	3.71E+00	3.70E+00	1.88E+07	1.31E+08	2.72	13.55	0.2597	2.1	1.20E-01	1.16E+02	1.33E+00
425	4.19E+00	3.70E+00	1.97E+07	1.26E+08	2.73	13.65	0.2615	2.2	1.20E-01	1.96E+02	1.29E+00
426	4.33E+00	3.70E+00	2.08E+07	1.25E+08	2.74	13.75	0.264	2.4	1.30E-01	1.13E+02	1.26E+00
427	3.24E+00	3.70E+00	2.21E+07	1.29E+08	2.75	13.8	0.266	2.5	1.30E-01	4.25E+01	1.24E+00

Cair (ppbv)	Evap (mm/d)	Case	Inheight (m)	Outheight (m)	Inflow (m ³ /s)	Outflow (m ³ /s)	lexchange	Makeup	Makeup_ mass	Lake area (m ²)
5.08E+00	3.42E+07	4	4.40E+00	1.21E+01	3.93E-01	1.57E-01	-1.63E+06	3.42E+04	8.08E-01	9.56E+06
5.08E+00	3.43E+07	4	4.40E+00	1.21E+01	4.71E-01	1.57E-01	1.71E+06	3.43E+04	8.08E-01	9.56E+06
5.06E+00	3.45E+07	4	4.40E+00	1.21E+01	1.57E-01	1.57E-01	1.55E+06	3.45E+04	8.06E-01	9.56E+06
5.04E+00	3.46E+07	4	4.40E+00	1.21E+01	1.56E+00	1.57E-01	1.56E+06	3.00E+05	6.96E+00	9.55E+06
5.02E+00	3.47E+07	4	4.40E+00	1.21E+01	1.70E+00	1.43E-01	1.13E+06	3.47E+04	8.01E-01	9.55E+06
4.99E+00	3.48E+07	4	4.40E+00	1.21E+01	9.21E-01	1.43E-01	1.05E+06	1.23E+05	2.83E+00	9.55E+06
4.97E+00	3.50E+07	4	4.40E+00	1.21E+01	7.71E-01	1.50E-01	6.12E+05	3.50E+04	7.96E-01	9.55E+06
4.94E+00	3.51E+07	4	4.40E+00	1.21E+01	6.07E-01	1.43E-01	9.63E+05	1.24E+05	2.79E+00	9.55E+06
4.91E+00	3.51E+07	4	4.40E+00	1.21E+01	3.41E+00	1.43E-01	5.27E+05	5.67E+05	1.27E+01	9.54E+06
4.88E+00	3.52E+07	4	4.40E+00	1.21E+01	6.70E+00	1.43E-01	1.50E+06	6.57E+05	1.46E+01	9.53E+06
4.84E+00	3.54E+07	4	4.40E+00	1.21E+01	6.39E+00	1.43E-01	4.41E+05	4.80E+05	1.05E+01	9.52E+06
4.80E+00	3.55E+07	4	4.40E+00	1.21E+01	5.62E+00	1.43E-01	5.31E+05	5.69E+05	1.23E+01	9.51E+06
4.76E+00	3.56E+07	4	4.40E+00	1.21E+01	5.95E+00	1.50E-01	4.43E+05	4.81E+05	1.03E+01	9.50E+06
4.72E+00	3.58E+07	4	4.40E+00	1.21E+01	4.70E+00	1.50E-01	-8.86E+04	3.92E+05	8.28E+00	9.49E+06
4.68E+00	3.59E+07	4	4.40E+00	1.21E+01	2.18E+00	1.43E-01	-4.43E+05	3.59E+04	7.51E-01	9.49E+06
4.64E+00	3.60E+07	4	4.40E+00	1.21E+01	3.29E+00	1.50E-01	5.31E+05	5.71E+05	1.18E+01	9.48E+06
4.58E+00	3.62E+07	4	4.40E+00	1.21E+01	5.80E+00	1.43E-01	-4.43E+05	4.83E+05	9.81E+00	9.47E+06
4.54E+00	3.63E+07	4	4.40E+00	1.21E+01	5.80E+00	1.36E-01	8.85E+04	5.73E+05	1.15E+01	9.46E+06
4.49E+00	3.66E+07	4	4.40E+00	1.21E+01	5.35E+00	1.50E-01	-3.54E+05	3.95E+05	7.75E+00	9.45E+06
4.45E+00	3.67E+07	4	4.40E+00	1.21E+01	5.50E+00	1.43E-01	-1.77E+05	5.74E+05	1.11E+01	9.45E+06
4.39E+00	3.69E+07	4	4.40E+00	1.21E+01	3.06E+00	1.50E-01	-8.83E+05	-5.27E+04	-3.23E+00	9.44E+06
4.34E+00	3.71E+07	4	4.40E+00	1.21E+01	3.87E+00	1.57E-01	-2.64E+05	6.65E+05	1.24E+01	9.44E+06
4.29E+00	3.72E+07	4	4.40E+00	1.21E+01	8.05E+00	1.36E-01	-1.76E+05	7.56E+05	1.39E+01	9.42E+06
4.23E+00	3.73E+07	4	4.40E+00	1.21E+01	9.80E+00	1.43E-01	-9.66E+00	9.37E+05	1.69E+01	9.41E+06
4.19E+00	3.75E+07	4	4.40E+00	1.21E+01	1.08E+01	1.64E-01	-8.80E+04	9.39E+05	1.67E+01	9.39E+06
4.13E+00	3.77E+07	4	4.40E+00	1.21E+01	7.65E+00	1.71E-01	-6.15E+05	4.89E+05	8.50E+00	9.37E+06
4.08E+00	3.79E+07	4	4.40E+00	1.21E+01	3.04E+00	1.71E-01	-8.77E+05	1.28E+05	2.19E+00	9.37E+06
4.02E+00	3.81E+07	4	4.40E+00	1.21E+01	2.56E+00	1.71E-01	-7.87E+05	3.09E+05	5.18E+00	9.37E+06
3.97E+00	3.83E+07	4	4.40E+00	1.21E+01	5.28E+00	1.71E-01	-5.24E+05	5.81E+05	9.52E+00	9.36E+06
3.91E+00	3.86E+07	4	4.40E+00	1.21E+01	9.44E+00	1.71E-01	-9.27E+00	1.13E+06	1.80E+01	9.34E+06
3.86E+00	3.88E+07	4	4.40E+00	1.21E+01	6.89E+00	1.71E-01	-1.05E+06	1.30E+05	2.03E+00	9.33E+06
3.80E+00	3.90E+07	4	4.40E+00	1.21E+01	2.90E+00	1.71E-01	-6.95E+05	4.02E+05	6.19E+00	9.33E+06
3.75E+00	3.92E+07	4	4.40E+00	1.21E+01	2.26E+00	1.71E-01	-1.13E+06	3.92E+04	5.90E-01	9.32E+06
3.69E+00	3.99E+07	4	4.40E+00	1.21E+01	2.08E+00	1.57E-01	-8.53E+06	-7.88E+06	-3.75E+02	9.40E+06
3.63E+00	4.02E+07	4	4.40E+00	1.21E+01	5.61E+00	1.57E-01	7.32E+06	8.96E+06	1.28E+02	9.39E+06
3.58E+00	4.00E+07	4	4.40E+00	1.21E+01	7.87E+00	1.57E-01	-4.31E+05	6.78E+05	9.51E+00	9.30E+06

Table C1. Model output from daily model inputs for Lake Perris, California, methyl *tert*-butyl ether—Continued

Time	C(Epil) (µg/L)	C(Hypol) (µg/L)	VolEpi (m ³)	VolHyp (m ³)	U (m/s)	Tw (°C)	kL (m/d)	MLD (kg/d)	dMLD/dt	Input	Cs (µg/L)
428	3.16E+00	3.70E+00	2.32E+07	1.28E+08	2.76	13.85	0.268	2.6	1.20E-01	4.82E+01	1.21E+00
429	3.11E+00	3.70E+00	2.43E+07	1.28E+08	2.76	13.95	0.2706	2.7	1.20E-01	7.09E+01	1.18E+00
430	3.18E+00	3.70E+00	2.53E+07	1.28E+08	2.77	14.05	0.2724	2.9	1.20E-01	1.13E+02	1.15E+00
431	3.42E+00	3.70E+00	2.64E+07	1.27E+08	2.77	14.15	0.2742	3	1.20E-01	2.13E+02	1.13E+00
432	4.03E+00	3.70E+00	2.74E+07	1.27E+08	2.79	14.25	0.2768	3.1	1.10E-01	3.40E+02	1.10E+00
433	4.80E+00	3.70E+00	2.84E+07	1.26E+08	2.79	14.35	0.2795	3.2	1.10E-01	2.69E+02	1.07E+00
434	5.17E+00	3.70E+00	2.93E+07	1.25E+08	2.8	14.45	0.2821	3.3	1.10E-01	4.37E+02	1.04E+00
435	6.59E+00	3.70E+00	3.02E+07	1.24E+08	2.81	14.55	0.284	3.4	1.10E-01	6.86E+02	1.02E+00
436	7.81E+00	3.70E+00	3.11E+07	1.23E+08	2.81	14.6	0.2853	3.5	1.10E-01	6.13E+02	9.96E-01
437	8.66E+00	3.70E+00	3.20E+07	1.22E+08	2.83	14.65	0.2874	3.6	1.00E-01	4.82E+02	9.74E-01
438	9.08E+00	3.70E+00	3.28E+07	1.21E+08	2.83	14.75	0.2901	3.7	1.00E-01	5.33E+02	9.47E-01
439	9.87E+00	3.70E+00	3.36E+07	1.21E+08	2.84	14.85	0.292	3.8	9.00E-02	5.73E+02	9.25E-01
440	1.02E+01	3.70E+00	3.44E+07	1.20E+08	2.84	14.95	0.2939	3.9	9.00E-02	2.89E+02	9.02E-01
441	9.75E+00	3.70E+00	3.51E+07	1.19E+08	2.85	15.05	0.2967	4	9.00E-02	1.87E+02	8.78E-01
442	9.56E+00	3.70E+00	3.58E+07	1.18E+08	2.86	15.15	0.2994	4.1	9.00E-02	2.78E+02	8.55E-01
443	9.51E+00	3.70E+00	3.65E+07	1.18E+08	2.87	15.25	0.3014	4.2	8.00E-02	3.23E+02	8.34E-01
444	9.59E+00	3.70E+00	3.72E+07	1.17E+08	2.88	15.4	0.3039	4.2	8.00E-02	3.91E+02	8.09E-01
445	9.89E+00	3.70E+00	3.78E+07	1.17E+08	2.88	15.55	0.3073	4.3	7.00E-02	6.01E+02	7.84E-01
446	1.07E+01	3.69E+00	3.84E+07	1.16E+08	2.9	15.65	0.3101	4.4	7.00E-02	7.43E+02	7.63E-01
447	1.13E+01	3.69E+00	3.89E+07	1.15E+08	2.9	15.75	0.3121	4.4	7.00E-02	4.25E+02	7.44E-01
448	1.10E+01	3.69E+00	3.94E+07	1.15E+08	2.91	15.85	0.3141	4.5	6.00E-02	2.21E+02	7.25E-01
449	1.08E+01	3.68E+00	3.99E+07	1.14E+08	2.92	15.95	0.317	4.6	6.00E-02	3.29E+02	7.07E-01
450	1.08E+01	3.68E+00	4.03E+07	1.14E+08	2.92	16.05	0.319	4.6	5.00E-02	4.59E+02	6.90E-01
451	1.11E+01	3.67E+00	4.07E+07	1.13E+08	2.92	16.15	0.3211	4.7	5.00E-02	5.67E+02	6.72E-01
452	1.18E+01	3.66E+00	4.11E+07	1.13E+08	2.94	16.25	0.324	4.7	4.00E-02	1.08E+03	6.55E-01
453	1.38E+01	3.66E+00	4.14E+07	1.13E+08	2.94	16.35	0.326	4.8	4.00E-02	1.34E+03	6.38E-01
454	1.50E+01	3.65E+00	4.17E+07	1.12E+08	2.95	16.45	0.3281	4.8	4.00E-02	7.18E+02	6.22E-01
455	1.47E+01	3.64E+00	4.20E+07	1.12E+08	2.96	16.55	0.3311	4.8	3.00E-02	3.47E+02	6.07E-01
456	1.43E+01	3.63E+00	4.23E+07	1.12E+08	2.96	16.7	0.3338	4.9	3.00E-02	2.65E+02	5.89E-01
457	1.37E+01	3.62E+00	4.25E+07	1.11E+08	2.97	16.85	0.3365	4.9	3.00E-02	1.84E+02	5.72E-01
458	1.31E+01	3.61E+00	4.27E+07	1.11E+08	2.98	16.95	0.3395	4.9	3.00E-02	3.17E+02	5.59E-01
459	1.30E+01	3.60E+00	4.29E+07	1.11E+08	2.98	17.05	0.3417	4.9	2.00E-02	3.57E+02	5.45E-01
460	1.29E+01	3.59E+00	4.30E+07	1.11E+08	2.98	17.15	0.3438	5	2.00E-02	6.94E+02	5.31E-01
461	1.38E+01	3.58E+00	4.32E+07	1.11E+08	2.99	17.25	0.346	5	1.00E-02	7.35E+02	5.19E-01
462	1.37E+01	3.57E+00	4.33E+07	1.11E+08	2.99	17.35	0.3481	5	1.00E-02	3.27E+02	5.07E-01
463	1.33E+01	3.55E+00	4.34E+07	1.11E+08	3	17.5	0.3518	5	0.00E+00	2.96E+02	4.93E-01

Cair (ppbv)	Evap (mm/d)	Case	Inheight (m)	Outheight (m)	Inflow (m ³ /s)	Outflow (m ³ /s)	lexchange	Makeup	Makeup_ mass	Lake area (m ²)
3.52E+00	4.01E+07	4	4.40E+00	1.21E+01	8.53E+00	1.57E-01	-3.44E+05	7.70E+05	1.06E+01	9.28E+06
3.47E+00	4.04E+07	4	4.40E+00	1.21E+01	9.04E+00	1.64E-01	-2.58E+05	8.63E+05	1.16E+01	9.27E+06
3.41E+00	4.07E+07	4	4.40E+00	1.21E+01	8.72E+00	1.57E-01	-3.43E+05	7.73E+05	1.01E+01	9.25E+06
3.37E+00	4.09E+07	4	4.40E+00	1.21E+01	1.12E+01	1.57E-01	-2.57E+05	8.66E+05	1.11E+01	9.24E+06
3.31E+00	4.12E+07	4	4.40E+00	1.21E+01	7.25E+00	1.43E-01	-1.03E+06	-5.06E+04	-2.31E+00	9.23E+06
3.26E+00	4.16E+07	4	4.40E+00	1.21E+01	8.55E-02	1.50E-01	-9.38E+05	4.16E+04	5.04E-01	9.23E+06
3.21E+00	4.19E+07	4	4.40E+00	1.21E+01	8.50E-02	1.57E-01	-9.36E+05	4.19E+04	4.96E-01	9.23E+06
3.15E+00	4.22E+07	4	4.40E+00	1.21E+01	0.00E+00	1.57E-01	-9.33E+05	4.22E+04	4.87E-01	9.23E+06
3.11E+00	4.24E+07	4	4.40E+00	1.21E+01	9.30E-02	1.79E-01	-8.46E+05	4.24E+04	4.79E-01	9.23E+06
3.05E+00	4.26E+07	4	4.40E+00	1.21E+01	8.28E-01	1.79E-01	-7.59E+05	1.34E+05	1.48E+00	9.23E+06
3.00E+00	4.30E+07	4	4.40E+00	1.21E+01	1.46E+00	1.57E-01	-7.57E+05	1.35E+05	1.45E+00	9.23E+06
2.95E+00	4.33E+07	4	4.40E+00	1.21E+01	1.14E+00	1.57E-01	-6.72E+05	1.35E+05	1.42E+00	9.23E+06
2.91E+00	4.36E+07	4	4.40E+00	1.21E+01	9.79E-01	1.64E-01	-6.70E+05	1.35E+05	1.39E+00	9.23E+06
2.85E+00	4.40E+07	4	4.40E+00	1.21E+01	8.14E-01	1.64E-01	-7.52E+05	4.40E+04	4.38E-01	9.22E+06
2.81E+00	4.43E+07	4	4.40E+00	1.21E+01	2.50E-01	1.57E-01	-7.50E+05	-4.75E+04	-5.15E+00	9.23E+06
2.76E+00	4.47E+07	4	4.40E+00	1.21E+01	0.00E+00	1.57E-01	-6.65E+05	4.47E+04	4.23E-01	9.23E+06
2.71E+00	4.51E+07	4	4.40E+00	1.21E+01	1.06E+00	1.71E-01	-4.98E+05	2.29E+05	2.10E+00	9.22E+06
2.67E+00	4.56E+07	4	4.40E+00	1.21E+01	1.06E+00	1.64E-01	-7.45E+05	-1.38E+05	-1.55E+01	9.22E+06
2.62E+00	4.60E+07	4	4.40E+00	1.21E+01	0.00E+00	1.57E-01	-6.61E+05	-4.57E+04	-5.57E+00	9.23E+06
2.58E+00	4.64E+07	4	4.40E+00	1.21E+01	7.15E-02	1.50E-01	-4.95E+05	4.64E+04	3.91E-01	9.23E+06
2.54E+00	4.67E+07	4	4.40E+00	1.21E+01	1.57E-01	1.57E-01	-4.94E+05	4.67E+04	3.84E-01	9.23E+06
2.50E+00	4.71E+07	4	4.40E+00	1.21E+01	8.55E-02	1.71E-01	-5.75E+05	-4.47E+04	-5.47E+00	9.23E+06
2.46E+00	4.75E+07	4	4.40E+00	1.21E+01	4.00E-01	1.57E-01	-3.28E+05	1.39E+05	1.09E+00	9.23E+06
2.42E+00	4.78E+07	4	4.40E+00	1.21E+01	8.07E-01	1.57E-01	-4.10E+05	4.78E+04	3.65E-01	9.23E+06
2.38E+00	4.82E+07	4	4.40E+00	1.21E+01	4.07E-01	1.64E-01	-4.09E+05	-4.36E+04	-5.82E+00	9.23E+06
2.34E+00	4.86E+07	4	4.40E+00	1.21E+01	7.85E-02	1.57E-01	-3.27E+05	4.86E+04	3.52E-01	9.23E+06
2.30E+00	4.89E+07	4	4.40E+00	1.21E+01	7.85E-02	1.57E-01	-5.71E+05	-2.26E+05	-3.84E+01	9.23E+06
2.26E+00	4.93E+07	4	4.40E+00	1.21E+01	2.36E-01	1.57E-01	-1.63E+05	1.41E+05	9.71E-01	9.23E+06
2.23E+00	4.98E+07	4	4.40E+00	1.21E+01	1.37E+00	1.73E-01	-1.63E+05	1.42E+05	9.45E-01	9.23E+06
2.19E+00	5.04E+07	4	4.40E+00	1.21E+01	1.07E+00	1.86E-01	-3.26E+05	-4.14E+04	-6.42E+00	9.23E+06
2.17E+00	5.08E+07	4	4.40E+00	1.21E+01	9.30E-02	1.86E-01	-1.63E+05	5.08E+04	3.22E-01	9.23E+06
2.13E+00	5.11E+07	4	4.40E+00	1.21E+01	1.78E-01	1.78E-01	-1.63E+05	5.12E+04	3.16E-01	9.23E+06
2.10E+00	5.15E+07	4	4.40E+00	1.21E+01	4.93E-01	1.71E-01	-8.13E+04	1.43E+05	8.63E-01	9.23E+06
2.06E+00	5.19E+07	4	4.40E+00	1.21E+01	4.92E-01	1.71E-01	-8.12E+04	5.19E+04	3.05E-01	9.23E+06
2.04E+00	5.23E+07	4	4.40E+00	1.21E+01	3.28E-01	1.64E-01	-1.62E+05	5.23E+04	3.00E-01	9.23E+06
2.00E+00	5.28E+07	4	4.40E+00	1.21E+01	9.85E-01	1.72E-01	1.62E+05	2.36E+05	1.32E+00	9.23E+06

Table C1. Model output from daily model inputs for Lake Perris, California, methyl *tert*-butyl ether—Continued

Time	C(Epil) (µg/L)	C(Hypol) (µg/L)	VolEpi (m ³)	VolHyp (m ³)	U (m/s)	Tw (°C)	kL (m/d)	MLD (kg/d)	dMLD/dt	Input	Cs (µg/L)
464	1.29E+01	3.55E+00	4.34E+07	1.11E+08	3.01	17.65	0.3547	5	1.00E-02	3.57E+02	4.80E-01
465	1.28E+01	3.54E+00	4.35E+07	1.11E+08	3.01	17.75	0.3569	5	0.00E+00	4.49E+02	4.69E-01
466	1.30E+01	3.52E+00	4.35E+07	1.11E+08	3.02	17.85	0.3591	5	0.00E+00	7.76E+02	4.58E-01
467	1.39E+01	3.52E+00	4.35E+07	1.11E+08	3.02	17.95	0.3613	5	0.00E+00	8.68E+02	4.48E-01
468	1.41E+01	3.50E+00	4.34E+07	1.11E+08	3.03	18.05	0.3635	5	-1.00E-02	4.39E+02	4.38E-01
469	1.37E+01	3.49E+00	4.34E+07	1.11E+08	3.03	18.2	0.3664	5	-1.00E-02	2.35E+02	4.26E-01
470	1.32E+01	3.47E+00	4.33E+07	1.11E+08	3.04	18.35	0.3693	5	-1.00E-02	3.17E+02	4.16E-01
471	1.29E+01	3.46E+00	4.32E+07	1.11E+08	3.04	18.45	0.3716	5	-1.00E-02	3.57E+02	4.06E-01
472	1.27E+01	3.45E+00	4.32E+07	1.11E+08	3.05	18.55	0.3739	5	-1.00E-02	5.31E+02	3.97E-01
473	1.32E+01	3.43E+00	4.30E+07	1.11E+08	3.05	18.65	0.3762	5	-1.00E-02	8.87E+02	3.89E-01
474	1.43E+01	3.43E+00	4.29E+07	1.11E+08	3.06	18.8	0.3791	4.9	-1.00E-02	1.24E+03	3.80E-01
475	1.57E+01	3.43E+00	4.28E+07	1.11E+08	3.06	18.95	0.3811	4.9	-2.00E-02	9.10E+02	3.70E-01
476	1.55E+01	3.43E+00	4.26E+07	1.11E+08	3.06	19.05	0.3834	4.9	-2.00E-02	3.49E+02	3.64E-01
477	1.49E+01	3.44E+00	4.25E+07	1.11E+08	3.07	19.15	0.3857	4.9	-2.00E-02	3.49E+02	3.57E-01
478	1.44E+01	3.44E+00	4.23E+07	1.12E+08	3.07	19.25	0.3881	4.9	-2.00E-02	3.15E+02	3.50E-01
479	1.40E+01	3.45E+00	4.21E+07	1.12E+08	3.08	19.35	0.3904	4.8	-2.00E-02	5.87E+02	3.44E-01
480	1.45E+01	3.45E+00	4.20E+07	1.12E+08	3.08	19.5	0.3924	4.8	-2.00E-02	9.36E+02	3.36E-01
481	1.54E+01	3.45E+00	4.18E+07	1.12E+08	3.08	19.65	0.3955	4.8	-2.00E-02	1.18E+03	3.29E-01
482	1.66E+01	3.46E+00	4.17E+07	1.12E+08	3.09	19.75	0.3979	4.8	-2.00E-02	8.59E+02	3.23E-01
483	1.61E+01	3.46E+00	4.15E+07	1.12E+08	3.09	19.85	0.3992	4.8	-2.00E-02	2.81E+02	3.17E-01
484	1.53E+01	3.47E+00	4.13E+07	1.12E+08	3.1	19.95	0.4016	4.7	-3.00E-02	2.72E+02	3.12E-01
485	1.46E+01	3.47E+00	4.11E+07	1.13E+08	3.1	20.1	0.4047	4.7	-2.00E-02	3.06E+02	3.06E-01
486	1.41E+01	3.48E+00	4.09E+07	1.13E+08	3.1	20.25	0.4067	4.7	-2.00E-02	4.68E+02	3.00E-01
487	1.42E+01	3.49E+00	4.07E+07	1.13E+08	3.1	20.35	0.4081	4.7	-2.00E-02	9.24E+02	2.95E-01
488	1.54E+01	3.50E+00	4.06E+07	1.13E+08	3.1	20.45	0.4106	4.7	-2.00E-02	1.30E+03	2.91E-01
489	1.66E+01	3.52E+00	4.04E+07	1.13E+08	3.11	20.55	0.413	4.6	-2.00E-02	8.49E+02	2.86E-01
490	1.60E+01	3.53E+00	4.03E+07	1.14E+08	3.11	20.65	0.4144	4.6	-2.00E-02	3.06E+02	2.82E-01
491	1.53E+01	3.53E+00	4.01E+07	1.14E+08	3.11	20.75	0.4158	4.6	-2.00E-02	3.37E+02	2.78E-01
492	1.47E+01	3.55E+00	3.99E+07	1.14E+08	3.11	20.9	0.4179	4.6	-2.00E-02	3.87E+02	2.72E-01
493	1.42E+01	3.54E+00	3.98E+07	1.14E+08	3.11	21.05	0.421	4.6	-2.00E-02	4.55E+02	2.67E-01
494	1.41E+01	3.55E+00	3.97E+07	1.14E+08	3.12	21.15	0.4235	4.5	-2.00E-02	6.93E+02	2.64E-01
495	1.44E+01	3.54E+00	3.95E+07	1.14E+08	3.12	21.25	0.4249	4.5	-1.00E-02	7.36E+02	2.60E-01
496	1.43E+01	3.54E+00	3.93E+07	1.13E+08	3.12	21.35	0.4263	4.5	-1.00E-02	5.18E+02	2.56E-01
497	1.38E+01	3.54E+00	3.92E+07	1.13E+08	3.12	21.45	0.4277	4.5	-1.00E-02	3.74E+02	2.53E-01
498	1.32E+01	3.53E+00	3.91E+07	1.12E+08	3.12	21.55	0.4291	4.5	-1.00E-02	3.56E+02	2.50E-01
499	1.27E+01	3.53E+00	3.90E+07	1.12E+08	3.12	21.65	0.4306	4.5	-1.00E-02	3.87E+02	2.47E-01

Cair (ppbv)	Evap (mm/d)	Case	Inheight (m)	Outheight (m)	Inflow (m ³ /s)	Outflow (m ³ /s)	lexchange	Makeup	Makeup_ mass	Lake area (m ²)
1.98E+00	5.34E+07	4	4.40E+00	1.21E+01	8.28E-01	1.79E-01	-8.12E+04	5.34E+04	2.90E-01	9.23E+06
1.96E+00	5.38E+07	4	4.40E+00	1.21E+01	8.55E-02	1.64E-01	-8.12E+04	-3.80E+04	-5.52E+00	9.23E+06
1.92E+00	5.41E+07	4	4.40E+00	1.21E+01	4.07E-01	1.57E-01	8.12E+04	1.46E+05	7.58E-01	9.23E+06
1.90E+00	5.45E+07	4	4.40E+00	1.21E+01	4.07E-01	1.64E-01	-1.62E+05	-1.29E+05	-2.03E+01	9.23E+06
1.87E+00	5.49E+07	4	4.40E+00	1.21E+01	0.00E+00	1.71E-01	1.71E-01	-3.68E+04	-5.90E+00	9.23E+06
1.85E+00	5.55E+07	4	4.40E+00	1.21E+01	9.30E-02	1.79E-01	8.55E-02	5.55E+04	2.68E-01	9.23E+06
1.83E+00	5.61E+07	4	4.40E+00	1.21E+01	1.86E-01	1.86E-01	8.12E+04	5.61E+04	2.65E-01	9.23E+06
1.81E+00	5.65E+07	4	4.40E+00	1.21E+01	0.00E+00	1.71E-01	8.12E+04	5.67E+04	2.58E-01	9.23E+06
1.78E+00	5.69E+07	4	4.40E+00	1.21E+01	0.00E+00	1.71E-01	1.71E-01	-3.48E+04	-5.03E+00	9.23E+06
1.76E+00	5.73E+07	4	4.40E+00	1.21E+01	8.55E-02	1.71E-01	1.63E+05	5.73E+04	2.53E-01	9.24E+06
1.74E+00	5.79E+07	4	4.40E+00	1.21E+01	1.64E-01	1.64E-01	8.13E+04	5.79E+04	2.49E-01	9.24E+06
1.72E+00	5.84E+07	4	4.40E+00	1.21E+01	7.85E-02	1.72E-01	1.63E+05	5.84E+04	2.45E-01	9.24E+06
1.71E+00	5.88E+07	4	4.40E+00	1.21E+01	4.07E-01	1.79E-01	2.44E+05	1.51E+05	6.21E-01	9.23E+06
1.69E+00	5.92E+07	4	4.40E+00	1.21E+01	6.57E-01	1.71E-01	1.63E+05	5.92E+04	2.40E-01	9.23E+06
1.67E+00	5.96E+07	4	4.40E+00	1.21E+01	3.13E-01	1.71E-01	1.63E+05	5.97E+04	2.37E-01	9.23E+06
1.65E+00	6.01E+07	4	4.40E+00	1.21E+01	1.71E-01	1.71E-01	1.63E+05	6.01E+04	2.34E-01	9.23E+06
1.64E+00	6.06E+07	4	4.40E+00	1.21E+01	1.71E-01	1.71E-01	1.63E+05	6.06E+04	2.31E-01	9.23E+06
1.62E+00	6.12E+07	4	4.40E+00	1.21E+01	7.72E-02	1.71E-01	1.63E+05	6.13E+04	2.28E-01	9.23E+06
1.61E+00	6.17E+07	4	4.40E+00	1.21E+01	0.00E+00	1.71E-01	8.16E+04	-3.01E+04	-5.65E+00	9.23E+06
1.60E+00	6.21E+07	4	4.40E+00	1.21E+01	2.50E-01	1.71E-01	1.63E+05	6.21E+04	2.23E-01	9.24E+06
1.58E+00	6.25E+07	4	4.40E+00	1.21E+01	2.50E-01	1.71E-01	1.63E+05	-2.92E+04	-5.07E+00	9.24E+06
1.58E+00	6.31E+07	4	4.40E+00	1.21E+01	7.85E-02	1.64E-01	1.64E+05	6.31E+04	2.19E-01	9.24E+06
1.56E+00	6.37E+07	4	4.40E+00	1.21E+01	2.45E-01	7.59E-02	1.64E+05	6.37E+04	2.17E-01	9.24E+06
1.56E+00	6.41E+07	4	4.40E+00	1.21E+01	1.15E-01	0.00E+00	1.64E+05	6.41E+04	2.14E-01	9.24E+06
1.54E+00	6.45E+07	4	4.40E+00	1.21E+01	1.57E-01	0.00E+00	2.46E+05	1.56E+05	5.16E-01	9.24E+06
1.54E+00	6.50E+07	4	4.40E+00	1.21E+01	1.57E-01	0.00E+00	1.64E+05	6.50E+04	2.11E-01	9.24E+06
1.52E+00	6.54E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	8.20E+04	-2.63E+04	-4.79E+00	9.24E+06
1.52E+00	6.58E+07	4	4.40E+00	1.21E+01	4.86E-01	0.00E+00	2.46E+05	1.58E+05	4.96E-01	9.24E+06
1.50E+00	6.64E+07	4	4.40E+00	1.21E+01	4.86E-01	0.00E+00	-4.86E-01	-1.17E+05	-1.95E+01	9.24E+06
1.50E+00	6.70E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	8.21E+04	6.70E+04	2.03E-01	9.24E+06
1.49E+00	6.75E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	0.00E+00	-1.16E+05	-1.85E+01	9.24E+06
1.48E+00	6.80E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.74E+05	-6.65E+05	-1.09E+02	9.25E+06
1.48E+00	6.85E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-3.28E+05	-3.89E+05	-6.30E+01	9.26E+06
1.47E+00	6.90E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-4.09E+05	-4.79E+05	-7.50E+01	9.27E+06
1.47E+00	6.94E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.63E+05	-2.04E+05	-3.05E+01	9.28E+06
1.46E+00	6.99E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-8.17E+04	-1.13E+05	-1.62E+01	9.28E+06

Table C1. Model output from daily model inputs for Lake Perris, California, methyl *tert*-butyl ether—Continued

Time	C(Epil) (µg/L)	C(Hypol) (µg/L)	VolEpi (m ³)	VolHyp (m ³)	U (m/s)	Tw (°C)	kL (m/d)	MLD (kg/d)	dMLD/dt	Input	Cs (µg/L)
500	1.25E+01	3.53E+00	3.89E+07	1.12E+08	3.12	21.8	0.4327	4.5	-1.00E-02	6.11E+02	2.43E-01
501	1.29E+01	3.54E+00	3.89E+07	1.12E+08	3.12	21.95	0.4348	4.5	0.00E+00	8.98E+02	2.39E-01
502	1.38E+01	3.54E+00	3.89E+07	1.12E+08	3.12	22.05	0.4362	4.5	0.00E+00	1.01E+03	2.37E-01
503	1.45E+01	3.54E+00	3.89E+07	1.12E+08	3.12	22.15	0.4376	4.5	0.00E+00	6.80E+02	2.34E-01
504	1.39E+01	3.54E+00	3.89E+07	1.12E+08	3.12	22.25	0.4391	4.5	0.00E+00	3.26E+02	2.31E-01
505	1.33E+01	3.54E+00	3.89E+07	1.12E+08	3.12	22.35	0.4405	4.5	0.00E+00	3.55E+02	2.29E-01
506	1.28E+01	3.54E+00	3.89E+07	1.12E+08	3.12	22.45	0.4419	4.5	1.00E-02	3.83E+02	2.27E-01
507	1.25E+01	3.54E+00	3.90E+07	1.12E+08	3.12	22.55	0.4433	4.5	1.00E-02	6.74E+02	2.24E-01
508	1.32E+01	3.54E+00	3.91E+07	1.12E+08	3.12	22.65	0.4448	4.5	1.00E-02	9.86E+02	2.21E-01
509	1.41E+01	3.54E+00	3.91E+07	1.12E+08	3.12	22.75	0.4462	4.5	1.00E-02	1.07E+03	2.20E-01
510	1.50E+01	3.54E+00	3.92E+07	1.12E+08	3.12	22.85	0.4476	4.5	2.00E-02	1.06E+03	2.18E-01
511	1.54E+01	3.54E+00	3.94E+07	1.12E+08	3.12	22.95	0.449	4.5	2.00E-02	7.23E+02	2.16E-01
512	1.50E+01	3.54E+00	3.96E+07	1.12E+08	3.12	23.05	0.4505	4.6	2.00E-02	4.47E+02	2.13E-01
513	1.44E+01	3.54E+00	3.97E+07	1.11E+08	3.12	23.15	0.4519	4.6	2.00E-02	4.75E+02	2.11E-01
514	1.41E+01	3.54E+00	3.99E+07	1.11E+08	3.12	23.25	0.4533	4.6	3.00E-02	7.30E+02	2.09E-01
515	1.46E+01	3.54E+00	4.01E+07	1.11E+08	3.11	23.35	0.4536	4.6	2.00E-02	1.16E+03	2.07E-01
516	1.58E+01	3.54E+00	4.04E+07	1.11E+08	3.11	23.45	0.4539	4.7	4.00E-02	1.15E+03	2.05E-01
1816	3.79E+00	3.79E+00	1.55E+08	0.00E+00	2.5	12.85	0.2213	0	0.00E+00	8.51E+00	1.77E+00
1817	3.77E+00	3.77E+00	1.55E+08	0.00E+00	2.49	12.75	0.2197	0	0.00E+00	8.51E+00	1.74E+00
1818	3.75E+00	3.75E+00	1.55E+08	0.00E+00	2.48	12.65	0.2181	0	0.00E+00	8.51E+00	1.70E+00
1819	3.73E+00	3.73E+00	1.55E+08	0.00E+00	2.47	12.6	0.2163	0	0.00E+00	1.99E+01	1.64E+00
1820	3.72E+00	3.72E+00	1.55E+08	0.00E+00	2.47	12.55	0.2152	0	0.00E+00	3.69E+01	1.59E+00
1821	3.72E+00	3.72E+00	1.55E+08	0.00E+00	2.47	12.45	0.2137	0	0.00E+00	4.82E+01	1.53E+00
1822	3.72E+00	3.72E+00	1.55E+08	0.00E+00	2.46	12.35	0.2115	0	0.00E+00	4.82E+01	1.48E+00
1823	3.71E+00	3.71E+00	1.55E+08	0.00E+00	2.45	12.3	0.2097	0	0.00E+00	2.84E+01	1.40E+00
1824	3.70E+00	3.70E+00	1.55E+08	0.00E+00	2.44	12.25	0.208	0	0.00E+00	1.99E+01	1.32E+00
1825	3.68E+00	3.68E+00	1.47E+08	0.00E+00	2.38	12.45	0.201	0	0.00E+00	3.12E+01	1.31E+00

Cair (ppbv)	Evap (mm/d)	Case	Inheight (m)	Outheight (m)	Inflow (m ³ /s)	Outflow (m ³ /s)	lexchange	Makeup	Makeup_ mass	Lake area (m ²)
1.46E+00	7.05E+07	4	4.40E+00	1.21E+01	4.79E-01	0.00E+00	1.63E+05	1.62E+05	4.46E-01	9.28E+06
1.45E+00	7.11E+07	4	4.40E+00	1.21E+01	4.79E-01	0.00E+00	-4.79E-01	7.11E+04	1.93E-01	9.28E+06
1.45E+00	7.16E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	0.00E+00	7.16E+04	1.92E-01	9.28E+06
1.44E+00	7.20E+07	4	4.40E+00	1.21E+01	3.30E-01	0.00E+00	-3.30E-01	7.20E+04	1.91E-01	9.28E+06
1.44E+00	7.24E+07	4	4.40E+00	1.21E+01	2.81E-01	0.00E+00	-2.81E-01	7.25E+04	1.90E-01	9.28E+06
1.44E+00	7.29E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	0.00E+00	7.29E+04	1.89E-01	9.28E+06
1.44E+00	7.33E+07	4	4.40E+00	1.21E+01	1.57E-01	0.00E+00	-8.17E+04	7.33E+04	1.89E-01	9.28E+06
1.44E+00	7.37E+07	4	4.40E+00	1.21E+01	3.08E-03	0.00E+00	-8.17E+04	7.39E+04	1.87E-01	9.28E+06
1.43E+00	7.42E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.63E+05	-1.70E+04	-2.55E+00	9.28E+06
1.43E+00	7.46E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.63E+05	-1.66E+04	-2.65E+00	9.29E+06
1.43E+00	7.51E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.63E+05	7.51E+04	1.85E-01	9.29E+06
1.43E+00	7.55E+07	4	4.40E+00	1.21E+01	1.73E-01	0.00E+00	-1.63E+05	7.55E+04	1.85E-01	9.29E+06
1.42E+00	7.60E+07	4	4.40E+00	1.21E+01	1.20E-01	0.00E+00	-1.63E+05	7.60E+04	1.83E-01	9.29E+06
1.42E+00	7.64E+07	4	4.40E+00	1.21E+01	3.48E-01	0.00E+00	-1.63E+05	7.64E+04	1.83E-01	9.29E+06
1.42E+00	7.69E+07	4	4.40E+00	1.21E+01	3.21E-01	0.00E+00	-2.44E+05	7.69E+04	1.82E-01	9.29E+06
1.42E+00	7.72E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.63E+05	7.72E+04	1.81E-01	9.29E+06
1.42E+00	7.76E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-3.25E+05	7.76E+04	1.81E-01	9.29E+06
4.70E+00	3.51E+07	4	4.40E+00	1.21E+01	1.55E-01	1.55E-01	0.00E+00	3.49E+04	6.94E-01	9.21E+06
4.56E+00	3.49E+07	4	4.40E+00	1.21E+01	1.43E-01	1.43E-01	0.00E+00	3.45E+04	6.61E-01	9.21E+06
4.41E+00	3.46E+07	4	4.40E+00	1.21E+01	1.43E-01	1.43E-01	0.00E+00	3.45E+04	6.61E-01	9.21E+06
4.25E+00	3.44E+07	4	4.40E+00	1.21E+01	0.00E+00	1.57E-01	1.57E-01	3.43E+04	6.26E-01	9.21E+06
4.08E+00	3.42E+07	4	4.40E+00	1.21E+01	0.00E+00	1.57E-01	1.57E-01	-5.77E+04	-2.44E+00	9.21E+06
3.91E+00	3.40E+07	4	4.40E+00	1.21E+01	4.01E-02	1.71E-01	1.31E-01	-5.81E+04	-2.45E+00	9.21E+06
3.73E+00	3.37E+07	4	4.40E+00	1.21E+01	2.50E-01	1.71E-01	-7.90E-02	1.26E+05	2.10E+00	9.21E+06
3.53E+00	3.35E+07	4	4.40E+00	1.21E+01	2.50E-01	1.71E-01	-7.90E-02	-5.84E+04	-2.46E+00	9.21E+06
3.31E+00	3.33E+07	4	4.40E+00	1.21E+01	6.13E-01	6.27E-01	1.46E-02	-5.85E+04	-2.45E+00	9.21E+06
3.35E+00	3.35E+07	4	4.40E+00	1.21E+01	4.14E-01	1.05E+00	6.35E-01	-1.60E+07	-6.69E+02	9.37E+06

Table C2. Model output from weekly model inputs for Lake Perris, California, methyl *tert*-butyl ether

Time	C(Epil) (µg/L)	C(Hypol) (µg/L)	VolEpi (m ³)	VolHyp (m ³)	U (m/s)	Tw (°C)	kL (m/d)	MLD (kg/wk)	dMLD/dt	Input	Cs (µg/L)
0	4.80E+00	4.80E+00	1.46E+08	0.00E+00	2.39	12	0.1993	0	0.00E+00	2.26E+01	1.60E+00
1	4.77E+00	4.77E+00	1.43E+08	0.00E+00	2.38	12	0.1975	0	0.00E+00	2.10E+01	1.65E+00
2	4.75E+00	4.75E+00	1.41E+08	0.00E+00	2.36	12	0.1958	0	0.00E+00	1.94E+01	1.70E+00
3	4.72E+00	4.72E+00	1.39E+08	0.00E+00	2.36	11.99	0.1947	0	0.00E+00	1.87E+01	1.75E+00
4	4.69E+00	4.69E+00	1.38E+08	0.00E+00	2.36	11.94	0.1942	0	0.00E+00	1.98E+01	1.79E+00
5	4.67E+00	4.67E+00	1.38E+08	0.00E+00	2.36	11.89	0.1941	0	0.00E+00	2.19E+01	1.83E+00
6	4.65E+00	4.65E+00	1.38E+08	0.00E+00	2.36	11.83	0.1943	0	0.00E+00	2.40E+01	1.88E+00
7	4.63E+00	4.63E+00	1.38E+08	0.00E+00	2.37	11.77	0.1944	0	0.00E+00	2.60E+01	1.92E+00
8	4.61E+00	4.61E+00	1.38E+08	0.00E+00	2.37	11.72	0.1946	0	0.00E+00	2.81E+01	1.96E+00
9	4.60E+00	4.60E+00	1.38E+08	0.00E+00	2.38	11.66	0.1947	0	0.00E+00	3.02E+01	2.01E+00
10	4.58E+00	4.58E+00	1.38E+08	0.00E+00	2.38	11.62	0.1951	0	0.00E+00	3.25E+01	2.04E+00
151	1.44E+01	4.70E+00	3.98E+07	1.11E+08	3.11	24.05	0.4619	4.6	3.13E-02	7.35E+02	1.95E-01
152	1.45E+01	4.70E+00	4.00E+07	1.11E+08	3.11	24.12	0.4624	4.6	3.13E-02	7.16E+02	1.93E-01
153	1.44E+01	4.70E+00	4.03E+07	1.11E+08	3.1	24.2	0.4628	4.7	3.13E-02	6.98E+02	1.92E-01
154	1.44E+01	4.70E+00	4.05E+07	1.10E+08	3.1	24.28	0.4633	4.7	3.13E-02	6.79E+02	1.91E-01
155	1.42E+01	4.70E+00	4.08E+07	1.10E+08	3.1	24.36	0.4637	4.7	3.13E-02	6.61E+02	1.89E-01
156	1.41E+01	4.70E+00	4.10E+07	1.10E+08	3.09	24.44	0.4642	4.8	3.13E-02	6.43E+02	1.88E-01
157	1.40E+01	4.70E+00	4.13E+07	1.10E+08	3.09	24.52	0.4646	4.8	3.24E-02	6.25E+02	1.87E-01
158	1.38E+01	4.70E+00	4.16E+07	1.09E+08	3.09	24.59	0.4651	4.8	4.70E-02	6.24E+02	1.86E-01
159	1.37E+01	4.70E+00	4.20E+07	1.09E+08	3.09	24.67	0.4655	4.9	4.70E-02	6.39E+02	1.84E-01
160	1.36E+01	4.70E+00	4.23E+07	1.08E+08	3.08	24.75	0.4659	4.9	4.70E-02	6.54E+02	1.83E-01
161	1.35E+01	4.70E+00	4.27E+07	1.08E+08	3.08	24.83	0.4664	5	4.70E-02	6.69E+02	1.81E-01
162	1.35E+01	4.70E+00	4.31E+07	1.07E+08	3.08	24.91	0.4668	5	4.70E-02	6.83E+02	1.80E-01
163	1.35E+01	4.70E+00	4.34E+07	1.07E+08	3.07	24.99	0.4672	5.1	4.70E-02	6.98E+02	1.79E-01
164	1.35E+01	4.70E+00	4.38E+07	1.06E+08	3.07	25.06	0.4675	5.1	4.78E-02	7.13E+02	1.77E-01
165	1.35E+01	4.70E+00	4.42E+07	1.06E+08	3.07	25.02	0.4661	5.2	6.27E-02	7.38E+02	1.78E-01
166	1.36E+01	4.70E+00	4.47E+07	1.05E+08	3.06	24.88	0.4632	5.2	6.27E-02	7.73E+02	1.80E-01
167	1.38E+01	4.70E+00	4.52E+07	1.05E+08	3.06	24.74	0.4603	5.3	6.27E-02	8.07E+02	1.82E-01
168	1.40E+01	4.70E+00	4.57E+07	1.04E+08	3.05	24.59	0.4574	5.4	6.27E-02	8.42E+02	1.84E-01
169	1.43E+01	4.70E+00	4.62E+07	1.04E+08	3.05	24.45	0.4545	5.4	6.27E-02	8.77E+02	1.87E-01
170	1.46E+01	4.70E+00	4.67E+07	1.03E+08	3.05	24.31	0.4516	5.5	6.27E-02	9.11E+02	1.89E-01
171	1.49E+01	4.70E+00	4.72E+07	1.03E+08	3.04	24.17	0.4487	5.5	6.31E-02	9.45E+02	1.91E-01
172	1.53E+01	4.70E+00	4.78E+07	1.02E+08	3.04	24.13	0.447	5.6	7.55E-02	9.56E+02	1.92E-01
173	1.56E+01	4.70E+00	4.84E+07	1.02E+08	3.03	24.19	0.4465	5.7	7.55E-02	9.43E+02	1.91E-01
174	1.58E+01	4.70E+00	4.89E+07	1.01E+08	3.03	24.24	0.446	5.8	7.55E-02	9.31E+02	1.90E-01
175	1.60E+01	4.70E+00	4.95E+07	1.00E+08	3.02	24.3	0.4455	5.8	7.55E-02	9.19E+02	1.88E-01

Cair (ppbv)	Evap (mm/d)	Case	InHeight (m)	Outheight (m)	Inflow (m ³ /s)	Outflow (m ³ /s)	Iexchange	Makeup	Makeup_ mass	Lake area (m ²)
3.91E+00	3.28E+07	4	4.40E+00	1.21E+01	1.33E-01	2.01E+00	1.88E+00	-2.32E+06	-1.06E+02	9.40E+06
4.03E+00	3.28E+07	4	4.40E+00	1.21E+01	1.33E-01	2.01E+00	1.88E+00	-2.31E+06	-1.25E+02	9.44E+06
4.16E+00	3.29E+07	4	4.40E+00	1.21E+01	1.33E-01	2.01E+00	1.88E+00	-2.29E+06	-1.23E+02	9.49E+06
4.27E+00	3.29E+07	4	4.40E+00	1.21E+01	1.67E-01	1.19E+00	1.02E+00	-1.21E+06	-6.45E+01	9.53E+06
4.36E+00	3.28E+07	4	4.40E+00	1.21E+01	2.00E-01	3.65E-01	1.65E-01	-9.17E+04	-4.89E+00	9.54E+06
4.44E+00	3.27E+07	4	4.40E+00	1.21E+01	2.00E-01	3.65E-01	1.65E-01	-9.18E+04	-4.85E+00	9.54E+06
4.51E+00	3.27E+07	4	4.40E+00	1.21E+01	2.00E-01	3.65E-01	1.65E-01	-9.18E+04	-4.84E+00	9.55E+06
4.59E+00	3.26E+07	4	4.40E+00	1.21E+01	2.00E-01	3.65E-01	1.65E-01	-9.18E+04	-4.82E+00	9.55E+06
4.67E+00	3.26E+07	4	4.40E+00	1.21E+01	2.00E-01	3.65E-01	1.65E-01	-9.18E+04	-4.80E+00	9.55E+06
4.75E+00	3.25E+07	4	4.40E+00	1.21E+01	2.00E-01	3.65E-01	1.65E-01	-9.18E+04	-4.78E+00	9.55E+06
4.82E+00	3.25E+07	4	4.40E+00	1.21E+01	3.18E-01	2.56E-01	-6.20E-02	-3.91E+04	-2.03E+00	9.56E+06
1.42E+00	8.04E+07	4	4.40E+00	1.21E+01	8.40E-01	1.69E+00	-2.55E+05	8.04E+04	1.78E-01	9.29E+06
1.42E+00	8.07E+07	4	4.40E+00	1.21E+01	8.40E-01	1.69E+00	-2.55E+05	8.07E+04	1.77E-01	9.29E+06
1.42E+00	8.10E+07	4	4.40E+00	1.21E+01	8.40E-01	1.69E+00	-2.54E+05	8.10E+04	1.77E-01	9.29E+06
1.42E+00	8.13E+07	4	4.40E+00	1.21E+01	8.40E-01	1.69E+00	-2.54E+05	8.13E+04	1.76E-01	9.29E+06
1.42E+00	8.17E+07	4	4.40E+00	1.21E+01	8.40E-01	1.69E+00	-2.54E+05	8.17E+04	1.76E-01	9.29E+06
1.42E+00	8.20E+07	4	4.40E+00	1.21E+01	8.40E-01	1.69E+00	-2.54E+05	8.20E+04	1.75E-01	9.29E+06
1.42E+00	8.23E+07	4	4.40E+00	1.21E+01	4.39E-01	9.16E-01	-2.70E+05	7.36E+04	1.56E-01	9.29E+06
1.42E+00	8.27E+07	4	4.40E+00	1.21E+01	3.90E-02	1.47E-01	-4.95E+05	-4.71E+04	-7.38E+00	9.29E+06
1.42E+00	8.30E+07	4	4.40E+00	1.21E+01	3.90E-02	1.47E-01	-4.94E+05	-4.67E+04	-7.24E+00	9.30E+06
1.42E+00	8.34E+07	4	4.40E+00	1.21E+01	3.90E-02	1.47E-01	-4.93E+05	-4.64E+04	-7.12E+00	9.30E+06
1.41E+00	8.37E+07	4	4.40E+00	1.21E+01	3.90E-02	1.47E-01	-4.92E+05	-4.60E+04	-7.03E+00	9.30E+06
1.41E+00	8.41E+07	4	4.40E+00	1.21E+01	3.90E-02	1.47E-01	-4.92E+05	-4.56E+04	-6.96E+00	9.30E+06
1.41E+00	8.45E+07	4	4.40E+00	1.21E+01	3.90E-02	1.47E-01	-4.91E+05	-4.52E+04	-6.90E+00	9.31E+06
1.41E+00	8.48E+07	4	4.40E+00	1.21E+01	8.60E-02	1.66E-01	-4.90E+05	-3.86E+04	-5.90E+00	9.31E+06
1.41E+00	8.46E+07	4	4.40E+00	1.21E+01	1.33E-01	1.84E-01	-5.00E+05	8.46E+04	1.71E-01	9.31E+06
1.41E+00	8.38E+07	4	4.40E+00	1.21E+01	1.33E-01	1.84E-01	-5.00E+05	8.38E+04	1.71E-01	9.31E+06
1.41E+00	8.31E+07	4	4.40E+00	1.21E+01	1.33E-01	1.84E-01	-4.99E+05	8.31E+04	1.72E-01	9.31E+06
1.41E+00	8.24E+07	4	4.40E+00	1.21E+01	1.33E-01	1.84E-01	-4.98E+05	8.24E+04	1.72E-01	9.31E+06
1.41E+00	8.17E+07	4	4.40E+00	1.21E+01	1.33E-01	1.84E-01	-4.97E+05	8.17E+04	1.73E-01	9.31E+06
1.41E+00	8.10E+07	4	4.40E+00	1.21E+01	1.33E-01	1.84E-01	-4.96E+05	8.09E+04	1.74E-01	9.31E+06
1.41E+00	8.03E+07	4	4.40E+00	1.21E+01	6.18E-01	1.99E-01	-4.98E+05	8.03E+04	1.74E-01	9.31E+06
1.41E+00	8.00E+07	4	4.40E+00	1.21E+01	1.10E+00	2.14E-01	-5.95E+05	8.00E+04	1.74E-01	9.31E+06
1.41E+00	8.02E+07	4	4.40E+00	1.21E+01	1.10E+00	2.14E-01	-5.94E+05	8.02E+04	1.73E-01	9.31E+06
1.41E+00	8.04E+07	4	4.40E+00	1.21E+01	1.10E+00	2.14E-01	-5.93E+05	8.04E+04	1.73E-01	9.31E+06
1.40E+00	8.05E+07	4	4.40E+00	1.21E+01	1.10E+00	2.14E-01	-5.92E+05	8.05E+04	1.72E-01	9.31E+06

Table C2. Model output from weekly model inputs for Lake Perris, California, methyl *tert*-butyl ether—Continued

Time	C(Epi) ($\mu\text{g/L}$)	C(Hypol) ($\mu\text{g/L}$)	VolEpi (m^3)	VolHyp (m^3)	U (m/s)	Tw ($^{\circ}\text{C}$)	kL (m/d)	MLD (kg/wk)	dMLD/dt	Input	Cs ($\mu\text{g/L}$)
176	1.62E+01	4.70E+00	5.01E+07	9.98E+07	3.01	24.36	0.4449	5.9	7.55E-02	9.06E+02	1.87E-01
177	1.63E+01	4.70E+00	5.07E+07	9.92E+07	3.01	24.42	0.4444	6	7.55E-02	8.94E+02	1.86E-01
178	1.64E+01	4.70E+00	5.13E+07	9.86E+07	3	24.47	0.4439	6.1	7.56E-02	8.81E+02	1.85E-01
179	1.64E+01	4.70E+00	5.19E+07	9.81E+07	3	24.54	0.4436	6.1	8.12E-02	8.86E+02	1.84E-01
180	1.65E+01	4.70E+00	5.26E+07	9.75E+07	2.99	24.61	0.4435	6.2	8.12E-02	9.07E+02	1.83E-01
181	1.66E+01	4.70E+00	5.32E+07	9.70E+07	2.99	24.68	0.4434	6.3	8.12E-02	9.28E+02	1.82E-01
182	1.67E+01	4.70E+00	5.39E+07	9.65E+07	2.98	24.75	0.4434	6.4	8.12E-02	9.49E+02	1.81E-01
183	1.69E+01	4.70E+00	5.45E+07	9.60E+07	2.98	24.82	0.4433	6.5	8.12E-02	9.70E+02	1.80E-01
184	1.70E+01	4.70E+00	5.52E+07	9.55E+07	2.98	24.89	0.4433	6.5	8.12E-02	9.91E+02	1.78E-01
185	1.72E+01	4.70E+00	5.58E+07	9.50E+07	2.97	24.96	0.4431	6.6	8.12E-02	1.01E+03	1.77E-01
186	1.74E+01	4.70E+00	5.64E+07	9.44E+07	2.97	25.04	0.4428	6.7	8.26E-02	1.02E+03	1.76E-01
187	1.76E+01	4.70E+00	5.71E+07	9.38E+07	2.96	25.13	0.4424	6.8	8.26E-02	1.00E+03	1.74E-01
188	1.77E+01	4.70E+00	5.77E+07	9.31E+07	2.95	25.21	0.4418	6.9	8.26E-02	9.89E+02	1.73E-01
189	1.78E+01	4.70E+00	5.83E+07	9.25E+07	2.95	25.3	0.4412	7	8.26E-02	9.75E+02	1.71E-01
190	1.79E+01	4.70E+00	5.90E+07	9.19E+07	2.94	25.38	0.4407	7	8.26E-02	9.61E+02	1.69E-01
191	1.79E+01	4.70E+00	5.96E+07	9.12E+07	2.93	25.47	0.4401	7.1	8.26E-02	9.47E+02	1.68E-01
192	1.80E+01	4.70E+00	6.02E+07	9.06E+07	2.92	25.55	0.4395	7.2	8.26E-02	9.33E+02	1.66E-01
193	1.80E+01	4.70E+00	6.08E+07	9.00E+07	2.92	25.63	0.439	7.3	7.57E-02	9.22E+02	1.65E-01
194	1.80E+01	4.70E+00	6.14E+07	8.95E+07	2.91	25.7	0.4385	7.4	7.55E-02	9.12E+02	1.64E-01
195	1.80E+01	4.70E+00	6.20E+07	8.89E+07	2.91	25.78	0.4381	7.4	7.55E-02	9.02E+02	1.63E-01
196	1.80E+01	4.70E+00	6.25E+07	8.83E+07	2.9	25.85	0.4376	7.5	7.55E-02	8.93E+02	1.62E-01
197	1.80E+01	4.70E+00	6.31E+07	8.78E+07	2.89	25.92	0.4372	7.6	7.55E-02	8.83E+02	1.61E-01
198	1.79E+01	4.70E+00	6.36E+07	8.72E+07	2.89	25.99	0.4367	7.7	7.55E-02	8.73E+02	1.60E-01
199	1.79E+01	4.70E+00	6.42E+07	8.66E+07	2.88	26.06	0.4362	7.7	7.55E-02	8.63E+02	1.59E-01
200	1.78E+01	4.70E+00	6.47E+07	8.60E+07	2.88	26.17	0.4361	7.8	6.33E-02	8.62E+02	1.57E-01
201	1.78E+01	4.70E+00	6.51E+07	8.53E+07	2.87	26.33	0.4363	7.9	6.33E-02	8.68E+02	1.55E-01
202	1.78E+01	4.70E+00	6.55E+07	8.47E+07	2.86	26.48	0.4366	7.9	6.27E-02	8.74E+02	1.53E-01
203	1.77E+01	4.70E+00	6.59E+07	8.40E+07	2.86	26.64	0.4368	8	6.27E-02	8.81E+02	1.51E-01
204	1.77E+01	4.70E+00	6.64E+07	8.33E+07	2.85	26.8	0.437	8.1	6.27E-02	8.87E+02	1.49E-01
205	1.77E+01	4.70E+00	6.68E+07	8.27E+07	2.84	26.95	0.4371	8.1	6.27E-02	8.94E+02	1.47E-01
206	1.77E+01	4.70E+00	6.72E+07	8.20E+07	2.83	27.11	0.4373	8.2	6.27E-02	9.01E+02	1.44E-01
207	1.77E+01	4.70E+00	6.75E+07	8.15E+07	2.83	27.14	0.4359	8.2	4.54E-02	9.15E+02	1.44E-01
208	1.78E+01	4.70E+00	6.78E+07	8.12E+07	2.82	27.04	0.433	8.3	4.42E-02	9.37E+02	1.46E-01
209	1.80E+01	4.70E+00	6.82E+07	8.09E+07	2.81	26.92	0.4299	8.3	4.42E-02	9.59E+02	1.47E-01
210	1.81E+01	4.70E+00	6.85E+07	8.05E+07	2.81	26.81	0.4268	8.4	4.42E-02	9.82E+02	1.49E-01
211	1.83E+01	4.70E+00	6.88E+07	8.02E+07	2.8	26.69	0.4237	8.4	4.42E-02	1.00E+03	1.50E-01

Cair (ppbv)	Evap (mm/d)	Case	InHeight (m)	Outheight (m)	Inflow (m ³ /s)	Outflow (m ³ /s)	Iexchange	Makeup	Makeup_ mass	Lake area (m ²)
1.40E+00	8.07E+07	4	4.40E+00	1.21E+01	1.10E+00	2.14E-01	-5.90E+05	8.07E+04	1.72E-01	9.31E+06
1.40E+00	8.09E+07	4	4.40E+00	1.21E+01	1.10E+00	2.14E-01	-5.89E+05	8.09E+04	1.71E-01	9.31E+06
1.40E+00	8.11E+07	4	4.40E+00	1.21E+01	8.24E-01	2.72E-01	-5.87E+05	8.23E+04	1.73E-01	9.31E+06
1.40E+00	8.13E+07	4	4.40E+00	1.21E+01	5.53E-01	3.28E-01	-5.20E+05	2.11E+05	4.40E-01	9.31E+06
1.40E+00	8.15E+07	4	4.40E+00	1.21E+01	5.53E-01	3.28E-01	-5.19E+05	2.11E+05	4.38E-01	9.31E+06
1.40E+00	8.18E+07	4	4.40E+00	1.21E+01	5.53E-01	3.28E-01	-5.18E+05	2.11E+05	4.36E-01	9.30E+06
1.40E+00	8.20E+07	4	4.40E+00	1.21E+01	5.53E-01	3.28E-01	-5.17E+05	2.12E+05	4.34E-01	9.30E+06
1.40E+00	8.22E+07	4	4.40E+00	1.21E+01	5.53E-01	3.28E-01	-5.16E+05	2.12E+05	4.32E-01	9.30E+06
1.40E+00	8.25E+07	4	4.40E+00	1.21E+01	5.53E-01	3.28E-01	-5.15E+05	2.12E+05	4.30E-01	9.30E+06
1.40E+00	8.27E+07	4	4.40E+00	1.21E+01	5.53E-01	3.28E-01	-5.14E+05	2.13E+05	4.28E-01	9.29E+06
1.40E+00	8.30E+07	4	4.40E+00	1.21E+01	4.20E-01	2.50E-01	-6.32E+05	8.42E+04	1.68E-01	9.29E+06
1.40E+00	8.33E+07	4	4.40E+00	1.21E+01	2.86E-01	1.71E-01	-6.32E+05	8.33E+04	1.65E-01	9.29E+06
1.39E+00	8.36E+07	4	4.40E+00	1.21E+01	2.86E-01	1.71E-01	-6.30E+05	8.36E+04	1.64E-01	9.29E+06
1.39E+00	8.38E+07	4	4.40E+00	1.21E+01	2.86E-01	1.71E-01	-6.29E+05	8.38E+04	1.63E-01	9.29E+06
1.39E+00	8.41E+07	4	4.40E+00	1.21E+01	2.86E-01	1.71E-01	-6.27E+05	8.41E+04	1.62E-01	9.29E+06
1.38E+00	8.44E+07	4	4.40E+00	1.21E+01	2.86E-01	1.71E-01	-6.26E+05	8.44E+04	1.61E-01	9.29E+06
1.38E+00	8.47E+07	4	4.40E+00	1.21E+01	2.86E-01	1.71E-01	-6.24E+05	8.47E+04	1.60E-01	9.29E+06
1.38E+00	8.50E+07	4	4.40E+00	1.21E+01	3.55E-01	1.72E-01	-5.71E+05	8.50E+04	1.59E-01	9.29E+06
1.38E+00	8.52E+07	4	4.40E+00	1.21E+01	4.24E-01	1.73E-01	-5.68E+05	8.52E+04	1.59E-01	9.29E+06
1.38E+00	8.54E+07	4	4.40E+00	1.21E+01	4.24E-01	1.73E-01	-5.67E+05	8.54E+04	1.58E-01	9.29E+06
1.38E+00	8.57E+07	4	4.40E+00	1.21E+01	4.24E-01	1.73E-01	-5.65E+05	8.57E+04	1.58E-01	9.29E+06
1.38E+00	8.59E+07	4	4.40E+00	1.21E+01	4.24E-01	1.73E-01	-5.64E+05	8.59E+04	1.57E-01	9.29E+06
1.38E+00	8.62E+07	4	4.40E+00	1.21E+01	4.24E-01	1.73E-01	-5.63E+05	8.62E+04	1.56E-01	9.29E+06
1.38E+00	8.64E+07	4	4.40E+00	1.21E+01	4.24E-01	1.73E-01	-5.62E+05	8.64E+04	1.56E-01	9.29E+06
1.38E+00	8.69E+07	4	4.40E+00	1.21E+01	2.72E-01	1.72E-01	-6.71E+05	-1.60E+05	-3.24E+01	9.29E+06
1.38E+00	8.75E+07	4	4.40E+00	1.21E+01	1.20E-01	1.71E-01	-6.74E+05	-1.72E+05	-3.47E+01	9.30E+06
1.38E+00	8.82E+07	4	4.40E+00	1.21E+01	1.20E-01	1.71E-01	-6.71E+05	-1.71E+05	-3.45E+01	9.30E+06
1.38E+00	8.89E+07	4	4.40E+00	1.21E+01	1.20E-01	1.71E-01	-6.68E+05	-1.70E+05	-3.43E+01	9.31E+06
1.37E+00	8.96E+07	4	4.40E+00	1.21E+01	1.20E-01	1.71E-01	-6.66E+05	-1.69E+05	-3.41E+01	9.31E+06
1.37E+00	9.03E+07	4	4.40E+00	1.21E+01	1.20E-01	1.71E-01	-6.63E+05	-1.69E+05	-3.39E+01	9.32E+06
1.37E+00	9.10E+07	4	4.40E+00	1.21E+01	1.20E-01	1.71E-01	-6.60E+05	-1.68E+05	-3.37E+01	9.32E+06
1.37E+00	9.10E+07	4	4.40E+00	1.21E+01	2.21E-01	1.67E-01	-3.42E+05	7.36E+04	1.20E-01	9.33E+06
1.37E+00	9.04E+07	4	4.40E+00	1.21E+01	3.22E-01	1.63E-01	-3.18E+05	9.04E+04	1.49E-01	9.33E+06
1.37E+00	8.97E+07	4	4.40E+00	1.21E+01	3.22E-01	1.63E-01	-3.18E+05	8.97E+04	1.50E-01	9.33E+06
1.37E+00	8.90E+07	4	4.40E+00	1.21E+01	3.22E-01	1.63E-01	-3.17E+05	8.90E+04	1.50E-01	9.33E+06
1.38E+00	8.83E+07	4	4.40E+00	1.21E+01	3.22E-01	1.63E-01	-3.16E+05	8.83E+04	1.50E-01	9.33E+06

Table C2. Model output from weekly model inputs for Lake Perris, California, methyl *tert*-butyl ether—Continued

Time	C(Epil) (µg/L)	C(Hypol) (µg/L)	VolEpi (m ³)	VolHyp (m ³)	U (m/s)	Tw (°C)	kL (m/d)	MLD (kg/wk)	dMLD/dt	Input	Cs (µg/L)
212	1.85E+01	4.70E+00	6.91E+07	7.99E+07	2.79	26.58	0.4207	8.5	4.42E-02	1.03E+03	1.52E-01
213	1.87E+01	4.70E+00	6.94E+07	7.96E+07	2.78	26.47	0.4177	8.5	4.42E-02	1.05E+03	1.54E-01
214	1.89E+01	4.70E+00	6.96E+07	7.93E+07	2.78	26.37	0.4151	8.5	2.07E-02	1.06E+03	1.55E-01
215	1.92E+01	4.70E+00	6.98E+07	7.91E+07	2.77	26.3	0.4128	8.6	1.85E-02	1.07E+03	1.56E-01
216	1.95E+01	4.70E+00	6.99E+07	7.88E+07	2.77	26.23	0.4107	8.6	1.85E-02	1.08E+03	1.58E-01
217	1.97E+01	4.70E+00	7.00E+07	7.86E+07	2.76	26.16	0.4085	8.6	1.85E-02	1.08E+03	1.59E-01
218	2.00E+01	4.70E+00	7.01E+07	7.84E+07	2.75	26.09	0.4064	8.6	1.85E-02	1.08E+03	1.60E-01
219	2.03E+01	4.70E+00	7.02E+07	7.81E+07	2.75	26.01	0.4042	8.6	1.85E-02	1.09E+03	1.61E-01
220	2.05E+01	4.70E+00	7.03E+07	7.79E+07	2.74	25.94	0.402	8.6	1.85E-02	1.09E+03	1.63E-01
221	2.08E+01	4.70E+00	7.03E+07	7.77E+07	2.74	25.87	0.3997	8.7	1.85E-02	1.09E+03	1.64E-01
222	2.10E+01	4.70E+00	7.02E+07	7.76E+07	2.73	25.78	0.3972	8.6	-8.55E-03	1.07E+03	1.66E-01
223	2.12E+01	4.70E+00	7.01E+07	7.74E+07	2.72	25.7	0.3946	8.6	-8.55E-03	1.05E+03	1.69E-01
224	2.14E+01	4.70E+00	6.99E+07	7.73E+07	2.72	25.61	0.392	8.6	-8.55E-03	1.03E+03	1.71E-01
225	2.16E+01	4.70E+00	6.98E+07	7.72E+07	2.71	25.52	0.3894	8.6	-8.55E-03	1.01E+03	1.73E-01
226	2.17E+01	4.70E+00	6.97E+07	7.70E+07	2.7	25.44	0.3868	8.6	-8.55E-03	9.91E+02	1.75E-01
227	2.18E+01	4.70E+00	6.96E+07	7.69E+07	2.69	25.35	0.3843	8.6	-8.55E-03	9.71E+02	1.77E-01
228	2.19E+01	4.70E+00	6.94E+07	7.69E+07	2.69	25.34	0.3828	8.6	-3.22E-02	9.63E+02	1.78E-01
229	2.20E+01	4.74E+00	6.92E+07	7.71E+07	2.68	25.42	0.3822	8.6	-3.56E-02	9.69E+02	1.78E-01
230	2.21E+01	4.80E+00	6.89E+07	7.74E+07	2.68	25.5	0.3819	8.5	-3.56E-02	9.76E+02	1.78E-01
231	2.23E+01	4.85E+00	6.87E+07	7.76E+07	2.67	25.59	0.3815	8.5	-3.56E-02	9.83E+02	1.78E-01
232	2.24E+01	4.91E+00	6.84E+07	7.79E+07	2.67	25.67	0.3811	8.4	-3.56E-02	9.91E+02	1.78E-01
233	2.25E+01	4.97E+00	6.82E+07	7.81E+07	2.66	25.76	0.3808	8.4	-3.56E-02	9.98E+02	1.78E-01
234	2.26E+01	5.02E+00	6.79E+07	7.84E+07	2.65	25.84	0.3804	8.4	-3.56E-02	1.01E+03	1.78E-01
235	2.27E+01	5.08E+00	6.76E+07	7.87E+07	2.65	25.93	0.38	8.3	-5.51E-02	9.73E+02	1.78E-01
236	2.28E+01	5.17E+00	6.72E+07	7.91E+07	2.64	26.02	0.3796	8.3	-5.84E-02	8.95E+02	1.78E-01
237	2.27E+01	5.26E+00	6.68E+07	7.95E+07	2.64	26.1	0.3792	8.2	-5.84E-02	8.10E+02	1.79E-01
238	2.25E+01	5.35E+00	6.64E+07	7.99E+07	2.63	26.19	0.3788	8.2	-5.84E-02	7.25E+02	1.79E-01
239	2.22E+01	5.44E+00	6.59E+07	8.04E+07	2.63	26.27	0.3784	8.1	-5.84E-02	6.40E+02	1.80E-01
240	2.18E+01	5.52E+00	6.55E+07	8.08E+07	2.62	26.36	0.378	8	-5.84E-02	5.55E+02	1.80E-01
241	2.14E+01	5.61E+00	6.51E+07	8.12E+07	2.61	26.44	0.3776	8	-5.84E-02	4.70E+02	1.81E-01
242	2.08E+01	5.69E+00	6.46E+07	8.17E+07	2.61	26.46	0.3765	7.9	-6.91E-02	4.08E+02	1.82E-01
243	2.02E+01	5.78E+00	6.41E+07	8.22E+07	2.6	26.4	0.3746	7.8	-7.12E-02	3.72E+02	1.86E-01
244	1.96E+01	5.86E+00	6.36E+07	8.27E+07	2.6	26.33	0.3726	7.8	-7.12E-02	3.40E+02	1.90E-01
245	1.90E+01	5.95E+00	6.31E+07	8.32E+07	2.59	26.26	0.3705	7.7	-7.12E-02	3.09E+02	1.93E-01
246	1.84E+01	6.03E+00	6.26E+07	8.37E+07	2.59	26.19	0.3685	7.6	-7.12E-02	2.77E+02	1.97E-01
247	1.78E+01	6.10E+00	6.21E+07	8.43E+07	2.58	26.12	0.3665	7.6	-7.12E-02	2.46E+02	2.01E-01

Cair (ppbv)	Evap (mm/d)	Case	InHeight (m)	Outheight (m)	Inflow (m ³ /s)	Outflow (m ³ /s)	Iexchange	Makeup	Makeup_ mass	Lake area (m ²)
1.38E+00	8.76E+07	4	4.40E+00	1.21E+01	3.22E-01	1.63E-01	-3.16E+05	8.76E+04	1.51E-01	9.33E+06
1.38E+00	8.69E+07	4	4.40E+00	1.21E+01	3.22E-01	1.63E-01	-3.15E+05	8.69E+04	1.51E-01	9.33E+06
1.38E+00	8.63E+07	4	4.40E+00	1.21E+01	3.75E-01	7.05E-01	-2.40E+05	-3.18E+04	-6.83E+00	9.33E+06
1.38E+00	8.59E+07	4	4.40E+00	1.21E+01	4.28E-01	1.25E+00	-2.33E+05	-4.34E+04	-9.45E+00	9.33E+06
1.39E+00	8.55E+07	4	4.40E+00	1.21E+01	4.28E-01	1.25E+00	-2.33E+05	-4.38E+04	-9.67E+00	9.33E+06
1.39E+00	8.50E+07	4	4.40E+00	1.21E+01	4.28E-01	1.25E+00	-2.32E+05	-4.42E+04	-9.89E+00	9.34E+06
1.39E+00	8.46E+07	4	4.40E+00	1.21E+01	4.28E-01	1.25E+00	-2.32E+05	-4.46E+04	-1.01E+01	9.34E+06
1.40E+00	8.42E+07	4	4.40E+00	1.21E+01	4.28E-01	1.25E+00	-2.32E+05	-4.49E+04	-1.03E+01	9.34E+06
1.40E+00	8.38E+07	4	4.40E+00	1.21E+01	4.28E-01	1.25E+00	-2.31E+05	-4.53E+04	-1.06E+01	9.34E+06
1.40E+00	8.33E+07	4	4.40E+00	1.21E+01	2.15E+00	3.67E+00	-1.50E+05	-1.61E+05	-3.80E+01	9.35E+06
1.41E+00	8.28E+07	4	4.40E+00	1.21E+01	3.88E+00	6.09E+00	-1.41E+05	-1.75E+05	-4.18E+01	9.35E+06
1.42E+00	8.24E+07	4	4.40E+00	1.21E+01	3.88E+00	6.09E+00	-1.40E+05	-1.75E+05	-4.23E+01	9.36E+06
1.42E+00	8.19E+07	4	4.40E+00	1.21E+01	3.88E+00	6.09E+00	-1.40E+05	-1.76E+05	-4.28E+01	9.36E+06
1.43E+00	8.14E+07	4	4.40E+00	1.21E+01	3.88E+00	6.09E+00	-1.40E+05	-1.76E+05	-4.32E+01	9.37E+06
1.44E+00	8.09E+07	4	4.40E+00	1.21E+01	3.88E+00	6.09E+00	-1.40E+05	-1.77E+05	-4.35E+01	9.37E+06
1.45E+00	8.05E+07	4	4.40E+00	1.21E+01	3.88E+00	6.09E+00	-1.40E+05	-1.77E+05	-4.38E+01	9.38E+06
1.45E+00	8.03E+07	4	4.40E+00	1.21E+01	2.97E+00	3.54E+00	2.01E+05	4.82E+04	9.74E-02	9.38E+06
1.46E+00	8.05E+07	4	4.40E+00	1.21E+01	2.06E+00	9.87E-01	2.50E+05	8.05E+04	1.63E-01	9.38E+06
1.47E+00	8.08E+07	4	4.40E+00	1.21E+01	2.06E+00	9.87E-01	2.51E+05	8.08E+04	1.63E-01	9.38E+06
1.48E+00	8.11E+07	4	4.40E+00	1.21E+01	2.06E+00	9.87E-01	2.51E+05	8.11E+04	1.64E-01	9.38E+06
1.49E+00	8.14E+07	4	4.40E+00	1.21E+01	2.06E+00	9.87E-01	2.51E+05	8.14E+04	1.64E-01	9.38E+06
1.50E+00	8.16E+07	4	4.40E+00	1.21E+01	2.06E+00	9.87E-01	2.52E+05	8.16E+04	1.65E-01	9.38E+06
1.51E+00	8.19E+07	4	4.40E+00	1.21E+01	2.06E+00	9.87E-01	2.52E+05	8.19E+04	1.65E-01	9.38E+06
1.53E+00	8.22E+07	4	4.40E+00	1.21E+01	1.75E+00	1.54E+00	3.91E+05	8.22E+04	1.66E-01	9.38E+06
1.54E+00	8.25E+07	4	4.40E+00	1.21E+01	1.44E+00	2.09E+00	4.16E+05	8.25E+04	1.67E-01	9.38E+06
1.56E+00	8.28E+07	4	4.40E+00	1.21E+01	1.44E+00	2.09E+00	4.17E+05	8.28E+04	1.68E-01	9.38E+06
1.57E+00	8.30E+07	4	4.40E+00	1.21E+01	1.44E+00	2.09E+00	4.18E+05	8.30E+04	1.69E-01	9.38E+06
1.59E+00	8.33E+07	4	4.40E+00	1.21E+01	1.44E+00	2.09E+00	4.19E+05	8.33E+04	1.70E-01	9.38E+06
1.60E+00	8.36E+07	4	4.40E+00	1.21E+01	1.44E+00	2.09E+00	4.20E+05	8.36E+04	1.71E-01	9.38E+06
1.62E+00	8.39E+07	4	4.40E+00	1.21E+01	1.44E+00	2.09E+00	4.21E+05	8.39E+04	1.72E-01	9.38E+06
1.64E+00	8.39E+07	4	4.40E+00	1.21E+01	1.65E+00	1.13E+00	5.00E+05	8.39E+04	1.74E-01	9.38E+06
1.66E+00	8.35E+07	4	4.40E+00	1.21E+01	1.85E+00	1.63E-01	5.16E+05	8.35E+04	1.76E-01	9.38E+06
1.68E+00	8.30E+07	4	4.40E+00	1.21E+01	1.85E+00	1.63E-01	5.18E+05	8.30E+04	1.79E-01	9.38E+06
1.71E+00	8.26E+07	4	4.40E+00	1.21E+01	1.85E+00	1.63E-01	5.20E+05	8.26E+04	1.81E-01	9.38E+06
1.73E+00	8.21E+07	4	4.40E+00	1.21E+01	1.85E+00	1.63E-01	5.21E+05	8.21E+04	1.84E-01	9.38E+06
1.75E+00	8.17E+07	4	4.40E+00	1.21E+01	1.85E+00	1.63E-01	5.23E+05	8.17E+04	1.86E-01	9.38E+06

Table C2. Model output from weekly model inputs for Lake Perris, California, methyl *tert*-butyl ether—Continued

Time	C(Epi) ($\mu\text{g/L}$)	C(Hypol) ($\mu\text{g/L}$)	VolEpi (m^3)	VolHyp (m^3)	U (m/s)	Tw ($^{\circ}\text{C}$)	kL (m/d)	MLD (kg/wk)	dMLD/dt	Input	Cs ($\mu\text{g/L}$)
248	1.72E+01	6.17E+00	6.15E+07	8.48E+07	2.57	26.05	0.3645	7.5	-7.12E-02	2.15E+02	2.05E-01
249	1.65E+01	6.24E+00	6.10E+07	8.53E+07	2.57	25.98	0.3627	7.4	-6.77E-02	1.97E+02	2.09E-01
250	1.59E+01	6.30E+00	6.05E+07	8.58E+07	2.56	25.92	0.361	7.4	-6.70E-02	1.95E+02	2.13E-01
251	1.54E+01	6.35E+00	6.00E+07	8.63E+07	2.56	25.87	0.3595	7.3	-6.70E-02	1.97E+02	2.17E-01
252	1.48E+01	6.40E+00	5.95E+07	8.68E+07	2.56	25.81	0.358	7.2	-6.70E-02	1.98E+02	2.21E-01
253	1.43E+01	6.45E+00	5.90E+07	8.73E+07	2.55	25.75	0.3564	7.2	-6.70E-02	2.00E+02	2.26E-01
254	1.38E+01	6.49E+00	5.85E+07	8.78E+07	2.55	25.7	0.3549	7.1	-6.70E-02	2.01E+02	2.30E-01
255	1.34E+01	6.53E+00	5.80E+07	8.83E+07	2.54	25.64	0.3534	7	-6.70E-02	2.03E+02	2.34E-01
256	1.29E+01	6.57E+00	5.76E+07	8.88E+07	2.54	25.58	0.352	7	-4.31E-02	2.01E+02	2.39E-01
257	1.25E+01	6.60E+00	5.74E+07	8.93E+07	2.54	25.51	0.3506	6.9	-3.70E-02	1.96E+02	2.45E-01
258	1.20E+01	6.63E+00	5.71E+07	8.98E+07	2.53	25.44	0.3492	6.9	-3.70E-02	1.90E+02	2.51E-01
259	1.16E+01	6.66E+00	5.69E+07	9.03E+07	2.53	25.37	0.3479	6.8	-3.70E-02	1.84E+02	2.57E-01
260	1.12E+01	6.69E+00	5.67E+07	9.08E+07	2.53	25.29	0.3465	6.8	-3.70E-02	1.78E+02	2.63E-01
261	1.08E+01	6.71E+00	5.64E+07	9.12E+07	2.52	25.22	0.3452	6.8	-3.70E-02	1.72E+02	2.69E-01
262	1.04E+01	6.73E+00	5.62E+07	9.17E+07	2.52	25.15	0.3439	6.7	-3.70E-02	1.66E+02	2.75E-01
263	1.01E+01	6.75E+00	5.62E+07	9.22E+07	2.52	25.05	0.3423	6.7	1.29E-02	1.62E+02	2.82E-01
264	9.69E+00	6.76E+00	5.64E+07	9.25E+07	2.52	24.92	0.3403	6.7	2.71E-02	1.61E+02	2.91E-01
265	9.32E+00	6.77E+00	5.67E+07	9.29E+07	2.51	24.78	0.3383	6.8	2.71E-02	1.61E+02	3.00E-01
266	8.98E+00	6.78E+00	5.70E+07	9.32E+07	2.51	24.63	0.3363	6.8	2.71E-02	1.61E+02	3.09E-01
267	8.67E+00	6.79E+00	5.73E+07	9.35E+07	2.51	24.49	0.3343	6.8	2.71E-02	1.61E+02	3.18E-01
268	8.38E+00	6.79E+00	5.76E+07	9.39E+07	2.5	24.35	0.3323	6.9	2.71E-02	1.60E+02	3.28E-01
269	8.12E+00	6.80E+00	5.80E+07	9.42E+07	2.5	24.21	0.3303	6.9	2.71E-02	1.60E+02	3.38E-01
270	7.87E+00	6.80E+00	5.86E+07	9.41E+07	2.5	24.06	0.3283	6.9	1.13E-01	1.59E+02	3.48E-01
271	7.66E+00	6.80E+00	5.96E+07	9.35E+07	2.5	23.92	0.3264	7.1	1.40E-01	1.56E+02	3.59E-01
272	7.47E+00	6.80E+00	6.08E+07	9.28E+07	2.49	23.78	0.3244	7.2	1.40E-01	1.53E+02	3.70E-01
273	7.30E+00	6.80E+00	6.19E+07	9.21E+07	2.49	23.64	0.3224	7.4	1.40E-01	1.51E+02	3.82E-01
274	7.14E+00	6.80E+00	6.30E+07	9.13E+07	2.49	23.49	0.3205	7.5	1.40E-01	1.48E+02	3.94E-01
275	6.99E+00	6.80E+00	6.41E+07	9.06E+07	2.49	23.35	0.3185	7.6	1.40E-01	1.45E+02	4.06E-01
276	6.85E+00	6.80E+00	6.53E+07	8.99E+07	2.48	23.21	0.3166	7.8	1.40E-01	1.42E+02	4.18E-01
277	6.72E+00	6.80E+00	6.68E+07	8.85E+07	2.48	23.01	0.3144	8	2.66E-01	1.39E+02	4.33E-01
278	6.63E+00	6.80E+00	6.90E+07	8.64E+07	2.48	22.75	0.3117	8.3	3.11E-01	1.36E+02	4.52E-01
279	6.56E+00	6.80E+00	7.13E+07	8.41E+07	2.48	22.46	0.309	8.6	3.11E-01	1.33E+02	4.72E-01
280	6.49E+00	6.80E+00	7.35E+07	8.19E+07	2.48	22.18	0.3063	8.9	3.11E-01	1.30E+02	4.93E-01
281	6.43E+00	6.80E+00	7.58E+07	7.96E+07	2.48	21.89	0.3036	9.2	3.11E-01	1.27E+02	5.15E-01
282	6.37E+00	6.80E+00	7.80E+07	7.74E+07	2.48	21.61	0.3009	9.5	3.11E-01	1.24E+02	5.38E-01
283	6.32E+00	6.80E+00	8.01E+07	7.53E+07	2.48	21.32	0.2981	9.8	3.11E-01	1.21E+02	5.62E-01

Cair (ppbv)	Evap (mm/d)	Case	InHeight (m)	Outheight (m)	Inflow (m ³ /s)	Outflow (m ³ /s)	Iexchange	Makeup	Makeup_ mass	Lake area (m ²)
1.77E+00	8.12E+07	4	4.40E+00	1.21E+01	1.85E+00	1.63E-01	5.25E+05	8.12E+04	1.89E-01	9.38E+06
1.80E+00	8.08E+07	4	4.40E+00	1.21E+01	1.50E+00	1.69E-01	5.00E+05	8.08E+04	1.91E-01	9.38E+06
1.83E+00	8.05E+07	4	4.40E+00	1.21E+01	1.15E+00	1.75E-01	4.96E+05	8.05E+04	1.94E-01	9.38E+06
1.85E+00	8.01E+07	4	4.40E+00	1.21E+01	1.15E+00	1.75E-01	4.97E+05	8.01E+04	1.97E-01	9.38E+06
1.88E+00	7.98E+07	4	4.40E+00	1.21E+01	1.15E+00	1.75E-01	4.98E+05	7.98E+04	2.00E-01	9.38E+06
1.91E+00	7.94E+07	4	4.40E+00	1.21E+01	1.15E+00	1.75E-01	4.99E+05	7.94E+04	2.03E-01	9.38E+06
1.93E+00	7.91E+07	4	4.40E+00	1.21E+01	1.15E+00	1.75E-01	5.00E+05	7.91E+04	2.06E-01	9.38E+06
1.96E+00	7.88E+07	4	4.40E+00	1.21E+01	1.15E+00	1.75E-01	5.01E+05	7.88E+04	2.09E-01	9.38E+06
1.99E+00	7.84E+07	4	4.40E+00	1.21E+01	3.52E+00	1.80E-01	4.94E+05	2.84E+05	7.70E-01	9.38E+06
2.03E+00	7.80E+07	4	4.40E+00	1.21E+01	5.90E+00	1.84E-01	4.93E+05	3.35E+05	9.31E-01	9.37E+06
2.06E+00	7.76E+07	4	4.40E+00	1.21E+01	5.90E+00	1.84E-01	4.94E+05	3.35E+05	9.53E-01	9.37E+06
2.10E+00	7.71E+07	4	4.40E+00	1.21E+01	5.90E+00	1.84E-01	4.94E+05	3.35E+05	9.75E-01	9.36E+06
2.13E+00	7.67E+07	4	4.40E+00	1.21E+01	5.90E+00	1.84E-01	4.95E+05	3.34E+05	9.97E-01	9.36E+06
2.17E+00	7.63E+07	4	4.40E+00	1.21E+01	5.90E+00	1.84E-01	4.96E+05	3.34E+05	1.02E+00	9.35E+06
2.20E+00	7.59E+07	4	4.40E+00	1.21E+01	5.90E+00	1.84E-01	4.97E+05	3.34E+05	1.04E+00	9.35E+06
2.24E+00	7.54E+07	4	4.40E+00	1.21E+01	8.09E+00	1.83E-01	3.72E+05	6.35E+05	2.03E+00	9.34E+06
2.28E+00	7.46E+07	4	4.40E+00	1.21E+01	1.03E+01	1.82E-01	3.36E+05	7.21E+05	2.38E+00	9.33E+06
2.33E+00	7.39E+07	4	4.40E+00	1.21E+01	1.03E+01	1.82E-01	3.37E+05	7.21E+05	2.45E+00	9.32E+06
2.37E+00	7.31E+07	4	4.40E+00	1.21E+01	1.03E+01	1.82E-01	3.37E+05	7.21E+05	2.53E+00	9.30E+06
2.41E+00	7.24E+07	4	4.40E+00	1.21E+01	1.03E+01	1.82E-01	3.37E+05	7.22E+05	2.61E+00	9.29E+06
2.46E+00	7.16E+07	4	4.40E+00	1.21E+01	1.03E+01	1.82E-01	3.38E+05	7.22E+05	2.69E+00	9.28E+06
2.50E+00	7.09E+07	4	4.40E+00	1.21E+01	1.03E+01	1.82E-01	3.38E+05	7.22E+05	2.77E+00	9.27E+06
2.54E+00	7.02E+07	4	4.40E+00	1.21E+01	7.23E+00	1.79E-01	-4.82E+05	5.24E+05	2.07E+00	9.26E+06
2.59E+00	6.95E+07	4	4.40E+00	1.21E+01	4.19E+00	1.75E-01	-7.40E+05	4.61E+05	1.88E+00	9.25E+06
2.64E+00	6.88E+07	4	4.40E+00	1.21E+01	4.19E+00	1.75E-01	-7.38E+05	4.61E+05	1.94E+00	9.24E+06
2.69E+00	6.81E+07	4	4.40E+00	1.21E+01	4.19E+00	1.75E-01	-7.36E+05	4.60E+05	1.99E+00	9.23E+06
2.74E+00	6.75E+07	4	4.40E+00	1.21E+01	4.19E+00	1.75E-01	-7.34E+05	4.60E+05	2.05E+00	9.22E+06
2.78E+00	6.68E+07	4	4.40E+00	1.21E+01	4.19E+00	1.75E-01	-7.32E+05	4.60E+05	2.12E+00	9.22E+06
2.83E+00	6.62E+07	4	4.40E+00	1.21E+01	4.19E+00	1.75E-01	-7.30E+05	4.59E+05	2.18E+00	9.21E+06
2.88E+00	6.54E+07	4	4.40E+00	1.21E+01	2.33E+00	1.79E-01	-1.91E+06	1.68E+05	8.22E-01	9.20E+06
2.94E+00	6.43E+07	4	4.40E+00	1.21E+01	4.77E-01	1.82E-01	-2.31E+06	6.43E+04	3.30E-01	9.20E+06
3.00E+00	6.33E+07	4	4.40E+00	1.21E+01	4.77E-01	1.82E-01	-2.28E+06	6.33E+04	3.39E-01	9.20E+06
3.05E+00	6.22E+07	4	4.40E+00	1.21E+01	4.77E-01	1.82E-01	-2.25E+06	6.22E+04	3.48E-01	9.20E+06
3.11E+00	6.12E+07	4	4.40E+00	1.21E+01	4.77E-01	1.82E-01	-2.22E+06	6.12E+04	3.58E-01	9.20E+06
3.17E+00	6.02E+07	4	4.40E+00	1.21E+01	4.77E-01	1.82E-01	-2.19E+06	6.02E+04	3.68E-01	9.20E+06
3.23E+00	5.92E+07	4	4.40E+00	1.21E+01	4.77E-01	1.82E-01	-2.16E+06	5.92E+04	3.78E-01	9.20E+06

Table C2. Model output from weekly model inputs for Lake Perris, California, methyl *tert*-butyl ether—Continued

Time	C(Epi) ($\mu\text{g/L}$)	C(Hypol) ($\mu\text{g/L}$)	VolEpi (m^3)	VolHyp (m^3)	U (m/s)	Tw ($^{\circ}\text{C}$)	kL (m/d)	MLD (kg/wk)	dMLD/dt	Input	Cs ($\mu\text{g/L}$)
284	6.27E+00	6.80E+00	8.29E+07	7.25E+07	2.48	21.07	0.2957	10.2	4.90E-01	1.18E+02	5.85E-01
285	6.23E+00	6.80E+00	8.64E+07	6.90E+07	2.48	20.87	0.2935	10.7	5.60E-01	1.15E+02	6.07E-01
286	6.20E+00	6.80E+00	9.01E+07	6.53E+07	2.48	20.67	0.2914	11.3	5.60E-01	1.11E+02	6.29E-01
287	6.17E+00	6.80E+00	9.37E+07	6.17E+07	2.48	20.48	0.2894	11.9	5.60E-01	1.08E+02	6.51E-01
288	6.14E+00	6.80E+00	9.72E+07	5.82E+07	2.47	20.29	0.2873	12.4	5.60E-01	1.05E+02	6.74E-01
289	6.11E+00	6.80E+00	1.01E+08	5.49E+07	2.47	20.1	0.2852	13	5.60E-01	1.01E+02	6.97E-01
290	6.08E+00	6.80E+00	1.04E+08	5.16E+07	2.47	19.9	0.2832	13.5	5.60E-01	9.80E+01	7.22E-01
291	6.05E+00	6.80E+00	1.07E+08	4.81E+07	2.47	19.71	0.2814	14.2	6.63E-01	9.36E+01	7.47E-01
292	6.03E+00	6.80E+00	1.11E+08	4.43E+07	2.47	19.52	0.2797	14.8	7.07E-01	8.77E+01	7.73E-01
293	6.00E+00	6.80E+00	1.15E+08	4.05E+07	2.47	19.33	0.2781	15.5	7.07E-01	8.14E+01	7.99E-01
294	5.98E+00	6.80E+00	1.18E+08	3.70E+07	2.47	19.13	0.2766	16.3	7.07E-01	7.51E+01	8.27E-01
295	5.94E+00	6.80E+00	1.22E+08	3.36E+07	2.48	18.94	0.275	17	7.07E-01	6.87E+01	8.55E-01
296	5.91E+00	6.80E+00	1.25E+08	3.04E+07	2.48	18.75	0.2734	17.7	7.07E-01	6.24E+01	8.84E-01
297	5.88E+00	6.80E+00	1.28E+08	2.74E+07	2.48	18.56	0.2719	18.4	7.07E-01	5.61E+01	9.14E-01
298	5.84E+00	6.80E+00	1.31E+08	2.44E+07	2.48	18.42	0.2709	19.1	7.45E-01	5.22E+01	9.40E-01
299	5.81E+00	6.80E+00	1.34E+08	2.15E+07	2.48	18.37	0.2706	19.9	7.62E-01	5.19E+01	9.59E-01
300	5.78E+00	6.80E+00	1.37E+08	1.87E+07	2.48	18.34	0.2705	20.6	7.62E-01	5.27E+01	9.76E-01
301	5.75E+00	6.80E+00	1.39E+08	1.60E+07	2.48	18.31	0.2705	21.4	7.62E-01	5.35E+01	9.93E-01
302	5.72E+00	6.80E+00	1.41E+08	1.36E+07	2.49	18.28	0.2704	22.1	7.62E-01	5.43E+01	1.01E+00
303	5.69E+00	6.80E+00	1.43E+08	1.13E+07	2.49	18.25	0.2704	22.9	7.62E-01	5.51E+01	1.03E+00
304	5.66E+00	6.80E+00	1.45E+08	9.17E+06	2.49	18.22	0.2703	23.7	7.62E-01	5.59E+01	1.05E+00
305	5.64E+00	6.80E+00	1.47E+08	7.39E+06	2.49	18.2	0.2703	24.3	5.94E-01	5.86E+01	1.06E+00
306	5.61E+00	6.80E+00	1.48E+08	6.04E+06	2.49	18.18	0.2704	24.9	5.09E-01	6.42E+01	1.08E+00
307	5.59E+00	6.80E+00	1.50E+08	4.87E+06	2.49	18.17	0.2704	25.4	5.09E-01	7.08E+01	1.09E+00
308	5.57E+00	6.80E+00	1.51E+08	3.76E+06	2.49	18.15	0.2705	25.9	5.09E-01	7.73E+01	1.11E+00
309	5.55E+00	6.80E+00	1.52E+08	2.71E+06	2.5	18.14	0.2706	26.4	5.09E-01	8.39E+01	1.13E+00
310	5.54E+00	6.80E+00	1.53E+08	1.71E+06	2.5	18.13	0.2707	26.9	5.09E-01	9.04E+01	1.14E+00
311	5.53E+00	6.80E+00	1.54E+08	7.69E+05	2.5	18.11	0.2708	27.4	5.09E-01	9.70E+01	1.16E+00
312	5.53E+00	6.80E+00	1.54E+08	1.56E+05	2.5	18.07	0.2706	13.8	-2.77E+01	9.87E+01	1.17E+00
313	5.51E+00	5.51E+00	1.54E+08	3.61E+00	2.5	18	0.2702	0	0.00E+00	9.29E+01	1.19E+00
314	5.49E+00	5.49E+00	1.54E+08	0.00E+00	2.5	17.92	0.2696	0	0.00E+00	8.44E+01	1.22E+00
315	5.47E+00	5.47E+00	1.54E+08	0.00E+00	2.5	17.83	0.269	0	0.00E+00	7.58E+01	1.24E+00
316	5.44E+00	5.44E+00	1.54E+08	0.00E+00	2.51	17.75	0.2684	0	0.00E+00	6.73E+01	1.26E+00
317	5.41E+00	5.41E+00	1.54E+08	0.00E+00	2.51	17.66	0.2678	0	0.00E+00	5.88E+01	1.28E+00
318	5.38E+00	5.38E+00	1.54E+08	0.00E+00	2.51	17.57	0.2672	0	0.00E+00	5.03E+01	1.31E+00
319	5.34E+00	5.34E+00	1.54E+08	0.00E+00	2.51	17.49	0.2667	0	0.00E+00	4.42E+01	1.33E+00

Cair (ppbv)	Evap (mm/d)	Case	InHeight (m)	Outheight (m)	Inflow (m ³ /s)	Outflow (m ³ /s)	Iexchange	Makeup	Makeup_ mass	Lake area (m ²)
3.28E+00	5.83E+07	4	4.40E+00	1.21E+01	2.63E-01	1.79E-01	-3.34E+06	5.83E+04	3.87E-01	9.20E+06
3.34E+00	5.76E+07	4	4.40E+00	1.21E+01	4.90E-02	1.75E-01	-3.72E+06	5.76E+04	3.97E-01	9.20E+06
3.41E+00	5.69E+07	4	4.40E+00	1.21E+01	4.90E-02	1.75E-01	-3.63E+06	5.69E+04	4.06E-01	9.20E+06
3.47E+00	5.63E+07	4	4.40E+00	1.21E+01	4.90E-02	1.75E-01	-3.53E+06	5.63E+04	4.16E-01	9.20E+06
3.53E+00	5.56E+07	4	4.40E+00	1.21E+01	4.90E-02	1.75E-01	-3.44E+06	5.56E+04	4.25E-01	9.20E+06
3.59E+00	5.50E+07	4	4.40E+00	1.21E+01	4.90E-02	1.75E-01	-3.35E+06	5.50E+04	4.35E-01	9.20E+06
3.65E+00	5.43E+07	4	4.40E+00	1.21E+01	4.90E-02	1.75E-01	-3.26E+06	5.43E+04	4.45E-01	9.20E+06
3.71E+00	5.37E+07	4	4.40E+00	1.21E+01	2.45E-02	1.80E-01	-3.74E+06	5.37E+04	4.55E-01	9.20E+06
3.78E+00	5.31E+07	4	4.40E+00	1.21E+01	0.00E+00	1.84E-01	-3.82E+06	5.31E+04	4.65E-01	9.20E+06
3.84E+00	5.25E+07	4	4.40E+00	1.21E+01	0.00E+00	1.84E-01	-3.64E+06	5.25E+04	4.76E-01	9.20E+06
3.91E+00	5.19E+07	3	4.40E+00	1.21E+01	0.00E+00	1.84E-01	-3.46E+06	5.19E+04	4.87E-01	9.20E+06
3.97E+00	5.13E+07	3	4.40E+00	1.21E+01	0.00E+00	1.84E-01	-3.29E+06	5.13E+04	4.98E-01	9.20E+06
4.03E+00	5.07E+07	3	4.40E+00	1.21E+01	0.00E+00	1.84E-01	-3.12E+06	5.07E+04	5.09E-01	9.20E+06
4.10E+00	5.02E+07	3	4.40E+00	1.21E+01	0.00E+00	1.84E-01	-2.96E+06	5.02E+04	5.20E-01	9.20E+06
4.16E+00	4.98E+07	3	4.40E+00	1.21E+01	2.79E-01	1.77E-01	-2.98E+06	-3.97E+04	-2.63E+00	9.20E+06
4.23E+00	4.96E+07	3	4.40E+00	1.21E+01	5.57E-01	1.69E-01	-2.89E+06	-8.14E+04	-5.36E+00	9.21E+06
4.29E+00	4.96E+07	3	4.40E+00	1.21E+01	5.57E-01	1.69E-01	-2.71E+06	-8.15E+04	-5.34E+00	9.21E+06
4.35E+00	4.95E+07	3	4.40E+00	1.21E+01	5.57E-01	1.69E-01	-2.53E+06	-8.15E+04	-5.31E+00	9.21E+06
4.42E+00	4.94E+07	3	4.40E+00	1.21E+01	5.57E-01	1.69E-01	-2.37E+06	-8.15E+04	-5.29E+00	9.21E+06
4.48E+00	4.94E+07	3	4.40E+00	1.21E+01	5.57E-01	1.69E-01	-2.21E+06	-8.16E+04	-5.26E+00	9.22E+06
4.55E+00	4.93E+07	1	4.40E+00	1.21E+01	5.57E-01	1.69E-01	-2.06E+06	-8.16E+04	-5.24E+00	9.22E+06
4.61E+00	4.92E+07	1	4.40E+00	1.21E+01	3.81E-01	1.64E-01	-1.49E+06	-2.09E+04	-1.33E+00	9.22E+06
4.67E+00	4.92E+07	1	4.40E+00	1.21E+01	2.04E-01	1.59E-01	-1.20E+06	9.94E+03	1.22E-01	9.22E+06
4.73E+00	4.92E+07	1	4.40E+00	1.21E+01	2.04E-01	1.59E-01	-1.14E+06	9.91E+03	1.23E-01	9.22E+06
4.79E+00	4.91E+07	1	4.40E+00	1.21E+01	2.04E-01	1.59E-01	-1.08E+06	9.88E+03	1.24E-01	9.22E+06
4.86E+00	4.91E+07	1	4.40E+00	1.21E+01	2.04E-01	1.59E-01	-1.02E+06	9.85E+03	1.26E-01	9.22E+06
4.92E+00	4.91E+07	1	4.40E+00	1.21E+01	2.04E-01	1.59E-01	-9.68E+05	9.82E+03	1.27E-01	9.22E+06
4.98E+00	4.90E+07	1	4.40E+00	1.21E+01	2.04E-01	1.59E-01	-9.13E+05	9.79E+03	1.28E-01	9.23E+06
5.04E+00	4.89E+07	4	4.40E+00	1.21E+01	1.59E-01	1.57E-01	-3.12E+05	3.55E+04	4.73E-01	9.23E+06
5.09E+00	4.87E+07	4	4.40E+00	1.21E+01	1.14E-01	1.55E-01	4.10E-02	4.87E+04	6.60E-01	9.23E+06
5.14E+00	4.85E+07	4	4.40E+00	1.21E+01	1.14E-01	1.55E-01	4.10E-02	4.85E+04	6.70E-01	9.23E+06
5.20E+00	4.82E+07	4	4.40E+00	1.21E+01	1.14E-01	1.55E-01	4.10E-02	4.82E+04	6.79E-01	9.23E+06
5.25E+00	4.80E+07	4	4.40E+00	1.21E+01	1.14E-01	1.55E-01	4.10E-02	4.77E+04	6.98E-01	9.23E+06
5.30E+00	4.77E+07	4	4.40E+00	1.21E+01	1.14E-01	1.55E-01	4.10E-02	4.77E+04	6.98E-01	9.23E+06
5.35E+00	4.75E+07	4	4.40E+00	1.21E+01	1.14E-01	1.55E-01	4.10E-02	4.74E+04	7.07E-01	9.23E+06
5.40E+00	4.73E+07	4	4.40E+00	1.21E+01	1.66E+00	1.63E-01	-1.49E+00	6.36E+04	9.59E-01	9.23E+06

Table C2. Model output from weekly model inputs for Lake Perris, California, methyl *tert*-butyl ether—Continued

Time	C(Epi) (µg/L)	C(Hypol) (µg/L)	VolEpi (m ³)	VolHyp (m ³)	U (m/s)	Tw (°C)	kL (m/d)	MLD (kg/wk)	dMLD/dt	Input	Cs (µg/L)
320	5.30E+00	5.30E+00	1.54E+08	0.00E+00	2.51	17.42	0.2662	0	0.00E+00	4.21E+01	1.35E+00
321	5.26E+00	5.26E+00	1.54E+08	0.00E+00	2.51	17.35	0.2657	0	0.00E+00	4.14E+01	1.37E+00
322	5.22E+00	5.22E+00	1.54E+08	0.00E+00	2.51	17.28	0.2653	0	0.00E+00	4.07E+01	1.39E+00
323	5.18E+00	5.18E+00	1.54E+08	0.00E+00	2.52	17.21	0.2648	0	0.00E+00	4.00E+01	1.41E+00
324	5.15E+00	5.15E+00	1.54E+08	0.00E+00	2.52	17.13	0.2643	0	0.00E+00	3.93E+01	1.42E+00
325	5.11E+00	5.11E+00	1.54E+08	0.00E+00	2.52	17.06	0.2639	0	0.00E+00	3.86E+01	1.44E+00
326	5.08E+00	5.08E+00	1.54E+08	0.00E+00	2.52	16.97	0.2632	0	0.00E+00	3.91E+01	1.47E+00
327	5.04E+00	5.04E+00	1.55E+08	0.00E+00	2.52	16.84	0.2622	0	0.00E+00	4.14E+01	1.49E+00
328	5.01E+00	5.01E+00	1.55E+08	0.00E+00	2.52	16.7	0.2611	0	0.00E+00	4.45E+01	1.51E+00
329	4.98E+00	4.98E+00	1.55E+08	0.00E+00	2.52	16.56	0.2599	0	0.00E+00	4.76E+01	1.54E+00
330	4.95E+00	4.95E+00	1.55E+08	0.00E+00	2.53	16.42	0.2588	0	0.00E+00	5.07E+01	1.56E+00
331	4.93E+00	4.93E+00	1.55E+08	0.00E+00	2.53	16.27	0.2576	0	0.00E+00	5.39E+01	1.59E+00
332	4.90E+00	4.90E+00	1.55E+08	0.00E+00	2.53	16.13	0.2565	0	0.00E+00	5.70E+01	1.62E+00
333	4.88E+00	4.88E+00	1.55E+08	0.00E+00	2.53	16.01	0.2555	0	0.00E+00	5.75E+01	1.64E+00
334	4.87E+00	4.87E+00	1.55E+08	0.00E+00	2.53	15.92	0.2547	0	0.00E+00	5.37E+01	1.65E+00
335	4.85E+00	4.85E+00	1.55E+08	0.00E+00	2.53	15.85	0.254	0	0.00E+00	4.80E+01	1.66E+00
336	4.83E+00	4.83E+00	1.55E+08	0.00E+00	2.53	15.78	0.2533	0	0.00E+00	4.24E+01	1.66E+00
337	4.80E+00	4.80E+00	1.55E+08	0.00E+00	2.53	15.71	0.2526	0	0.00E+00	3.67E+01	1.67E+00
338	4.77E+00	4.77E+00	1.55E+08	0.00E+00	2.53	15.64	0.2519	0	0.00E+00	3.11E+01	1.68E+00
339	4.75E+00	4.75E+00	1.55E+08	0.00E+00	2.53	15.57	0.2512	0	0.00E+00	2.55E+01	1.69E+00
340	4.71E+00	4.71E+00	1.55E+08	0.00E+00	2.53	15.46	0.2501	0	0.00E+00	2.13E+01	1.70E+00
341	4.68E+00	4.68E+00	1.55E+08	0.00E+00	2.53	15.29	0.2483	0	0.00E+00	1.96E+01	1.71E+00
342	4.65E+00	4.65E+00	1.55E+08	0.00E+00	2.53	15.09	0.2463	0	0.00E+00	1.90E+01	1.73E+00
343	4.62E+00	4.62E+00	1.55E+08	0.00E+00	2.53	14.89	0.2442	0	0.00E+00	1.84E+01	1.74E+00
344	4.59E+00	4.59E+00	1.55E+08	0.00E+00	2.52	14.69	0.2421	0	0.00E+00	1.79E+01	1.76E+00
345	4.56E+00	4.56E+00	1.55E+08	0.00E+00	2.52	14.49	0.2401	0	0.00E+00	1.73E+01	1.77E+00
346	4.53E+00	4.53E+00	1.55E+08	0.00E+00	2.52	14.29	0.238	0	0.00E+00	1.67E+01	1.79E+00
347	4.50E+00	4.50E+00	1.55E+08	0.00E+00	2.52	14.1	0.2359	0	0.00E+00	1.62E+01	1.80E+00
348	4.47E+00	4.47E+00	1.55E+08	0.00E+00	2.52	13.94	0.2339	0	0.00E+00	1.58E+01	1.79E+00
349	4.45E+00	4.45E+00	1.55E+08	0.00E+00	2.51	13.78	0.2319	0	0.00E+00	1.55E+01	1.78E+00
350	4.42E+00	4.42E+00	1.55E+08	0.00E+00	2.51	13.62	0.2298	0	0.00E+00	1.51E+01	1.77E+00
351	4.39E+00	4.39E+00	1.55E+08	0.00E+00	2.5	13.47	0.2278	0	0.00E+00	1.48E+01	1.76E+00
352	4.37E+00	4.37E+00	1.55E+08	0.00E+00	2.5	13.31	0.2258	0	0.00E+00	1.44E+01	1.75E+00
353	4.34E+00	4.34E+00	1.55E+08	0.00E+00	2.49	13.15	0.2238	0	0.00E+00	1.41E+01	1.74E+00
354	4.31E+00	4.31E+00	1.55E+08	0.00E+00	2.49	13	0.2217	0	0.00E+00	1.44E+01	1.72E+00
355	4.29E+00	4.29E+00	1.55E+08	0.00E+00	2.48	12.85	0.2196	0	0.00E+00	1.60E+01	1.68E+00

Cair (ppbv)	Evap (mm/d)	Case	InHeight (m)	Outheight (m)	Inflow (m ³ /s)	Outflow (m ³ /s)	Iexchange	Makeup	Makeup_ mass	Lake area (m ²)
5.44E+00	4.71E+07	4	4.40E+00	1.21E+01	3.20E+00	1.71E-01	-3.03E+00	7.32E+04	1.12E+00	9.23E+06
5.48E+00	4.69E+07	4	4.40E+00	1.21E+01	3.20E+00	1.71E-01	-3.03E+00	7.28E+04	1.14E+00	9.23E+06
5.52E+00	4.67E+07	4	4.40E+00	1.21E+01	3.20E+00	1.71E-01	-3.03E+00	7.25E+04	1.16E+00	9.22E+06
5.56E+00	4.65E+07	4	4.40E+00	1.21E+01	3.20E+00	1.71E-01	-3.03E+00	7.25E+04	1.16E+00	9.22E+06
5.60E+00	4.63E+07	4	4.40E+00	1.21E+01	3.20E+00	1.71E-01	-3.03E+00	7.22E+04	1.19E+00	9.22E+06
5.64E+00	4.61E+07	4	4.40E+00	1.21E+01	3.20E+00	1.71E-01	-3.03E+00	7.22E+04	1.19E+00	9.22E+06
5.68E+00	4.58E+07	4	4.40E+00	1.21E+01	1.61E+00	1.74E-01	-1.44E+00	1.43E+05	2.38E+00	9.22E+06
5.70E+00	4.55E+07	4	4.40E+00	1.21E+01	2.40E-02	1.77E-01	1.53E-01	1.89E+05	3.20E+00	9.22E+06
5.72E+00	4.51E+07	4	4.40E+00	1.21E+01	2.40E-02	1.77E-01	1.53E-01	1.89E+05	3.25E+00	9.22E+06
5.74E+00	4.47E+07	4	4.40E+00	1.21E+01	2.40E-02	1.77E-01	1.53E-01	1.89E+05	3.29E+00	9.21E+06
5.76E+00	4.43E+07	4	4.40E+00	1.21E+01	2.40E-02	1.77E-01	1.53E-01	1.88E+05	3.34E+00	9.21E+06
5.77E+00	4.39E+07	4	4.40E+00	1.21E+01	2.40E-02	1.77E-01	1.53E-01	1.88E+05	3.39E+00	9.21E+06
5.79E+00	4.35E+07	4	4.40E+00	1.21E+01	2.40E-02	1.77E-01	1.53E-01	1.88E+05	3.45E+00	9.21E+06
5.80E+00	4.32E+07	4	4.40E+00	1.21E+01	6.90E-02	1.68E-01	9.90E-02	1.03E+05	1.91E+00	9.20E+06
5.80E+00	4.29E+07	4	4.40E+00	1.21E+01	1.14E-01	1.59E-01	4.50E-02	4.29E+04	8.03E-01	9.20E+06
5.79E+00	4.27E+07	4	4.40E+00	1.21E+01	1.14E-01	1.59E-01	4.50E-02	4.26E+04	8.03E-01	9.20E+06
5.77E+00	4.25E+07	4	4.40E+00	1.21E+01	1.14E-01	1.59E-01	4.50E-02	4.23E+04	8.03E-01	9.20E+06
5.76E+00	4.23E+07	4	4.40E+00	1.21E+01	1.14E-01	1.59E-01	4.50E-02	4.23E+04	8.03E-01	9.20E+06
5.75E+00	4.22E+07	4	4.40E+00	1.21E+01	2.28E-01	1.58E-01	-7.07E-02	4.16E+04	8.01E-01	9.20E+06
5.74E+00	4.20E+07	4	4.40E+00	1.21E+01	2.28E-01	1.58E-01	-7.07E-02	4.16E+04	8.01E-01	9.20E+06
5.72E+00	4.17E+07	4	4.40E+00	1.21E+01	2.28E-01	1.58E-01	-7.07E-02	4.16E+04	8.01E-01	9.20E+06
5.67E+00	4.12E+07	4	4.40E+00	1.21E+01	2.79E-01	1.57E-01	-1.22E-01	3.96E+04	7.90E-01	9.20E+06
5.62E+00	4.07E+07	4	4.40E+00	1.21E+01	2.79E-01	1.57E-01	-1.22E-01	3.96E+04	7.90E-01	9.20E+06
5.57E+00	4.02E+07	4	4.40E+00	1.21E+01	2.79E-01	1.57E-01	-1.22E-01	3.96E+04	7.90E-01	9.20E+06
5.52E+00	3.97E+07	4	4.40E+00	1.21E+01	2.79E-01	1.57E-01	-1.22E-01	3.96E+04	7.90E-01	9.20E+06
5.46E+00	3.92E+07	4	4.40E+00	1.21E+01	2.13E-01	1.57E-01	-5.60E-02	3.83E+04	7.80E-01	9.20E+06
5.41E+00	3.87E+07	4	4.40E+00	1.21E+01	2.13E-01	1.57E-01	-5.60E-02	3.83E+04	7.80E-01	9.20E+06
5.34E+00	3.82E+07	4	4.40E+00	1.21E+01	1.74E-01	1.57E-01	-1.65E-02	3.10E+04	6.32E-01	9.20E+06
5.25E+00	3.78E+07	4	4.40E+00	1.21E+01	6.90E-02	1.57E-01	8.80E-02	2.47E+04	5.02E-01	9.20E+06
5.15E+00	3.74E+07	4	4.40E+00	1.21E+01	6.90E-02	1.57E-01	8.80E-02	2.40E+04	4.84E-01	9.20E+06
5.04E+00	3.70E+07	4	4.40E+00	1.21E+01	6.90E-02	1.57E-01	8.80E-02	2.34E+04	4.67E-01	9.20E+06
4.94E+00	3.66E+07	4	4.40E+00	1.21E+01	6.90E-02	1.57E-01	8.80E-02	2.34E+04	4.67E-01	9.20E+06
4.83E+00	3.62E+07	4	4.40E+00	1.21E+01	8.64E-02	1.58E-01	7.14E-02	2.23E+04	4.35E-01	9.20E+06
4.73E+00	3.58E+07	4	4.40E+00	1.21E+01	8.64E-02	1.58E-01	7.14E-02	2.23E+04	4.35E-01	9.20E+06
4.61E+00	3.54E+07	4	4.40E+00	1.21E+01	9.05E-02	1.58E-01	6.75E-02	1.53E+04	2.99E-01	9.20E+06
4.45E+00	3.50E+07	4	4.40E+00	1.21E+01	1.12E-01	1.59E-01	4.70E-02	8.79E+03	1.68E-01	9.21E+06

Table C2. Model output from weekly model inputs for Lake Perris, California, methyl *tert*-butyl ether—Continued

Time	C(Epi) (µg/L)	C(Hypol) (µg/L)	VolEpi (m ³)	VolHyp (m ³)	U (m/s)	Tw (°C)	kL (m/d)	MLD (kg/wk)	dMLD/dt	Input	Cs (µg/L)
356	4.27E+00	4.27E+00	1.55E+08	0.00E+00	2.48	12.71	0.2174	0	0.00E+00	1.82E+01	1.64E+00
357	4.24E+00	4.24E+00	1.55E+08	0.00E+00	2.47	12.57	0.2152	0	0.00E+00	2.04E+01	1.59E+00
358	4.22E+00	4.22E+00	1.55E+08	0.00E+00	2.46	12.43	0.213	0	0.00E+00	2.26E+01	1.55E+00
359	4.20E+00	4.20E+00	1.55E+08	0.00E+00	2.45	12.28	0.2108	0	0.00E+00	2.47E+01	1.50E+00
360	4.19E+00	4.19E+00	1.55E+08	0.00E+00	2.45	12.14	0.2086	0	0.00E+00	2.69E+01	1.45E+00
361	4.17E+00	4.17E+00	1.55E+08	0.00E+00	2.44	12.03	0.2065	0	0.00E+00	2.81E+01	1.42E+00
362	4.15E+00	4.15E+00	1.53E+08	0.00E+00	2.43	12	0.2047	0	0.00E+00	2.75E+01	1.45E+00
363	4.13E+00	4.13E+00	1.50E+08	0.00E+00	2.41	12	0.2029	0	0.00E+00	2.59E+01	1.50E+00
364	4.12E+00	4.12E+00	1.48E+08	0.00E+00	2.4	12	0.2011	0	0.00E+00	2.42E+01	1.55E+00
365	4.10E+00	4.10E+00	1.46E+08	0.00E+00	2.39	12	0.1993	0	0.00E+00	2.26E+01	1.60E+00
366	4.08E+00	4.08E+00	1.43E+08	0.00E+00	2.38	12	0.1975	0	0.00E+00	2.10E+01	1.65E+00
367	4.06E+00	4.06E+00	1.41E+08	0.00E+00	2.36	12	0.1958	0	0.00E+00	1.94E+01	1.70E+00
368	4.05E+00	4.05E+00	1.39E+08	0.00E+00	2.36	11.99	0.1947	0	0.00E+00	1.87E+01	1.75E+00
369	4.03E+00	4.03E+00	1.38E+08	0.00E+00	2.36	11.94	0.1942	0	0.00E+00	1.98E+01	1.79E+00
370	4.01E+00	4.01E+00	1.38E+08	0.00E+00	2.36	11.89	0.1941	0	0.00E+00	2.19E+01	1.83E+00
371	4.00E+00	4.00E+00	1.38E+08	0.00E+00	2.36	11.83	0.1943	0	0.00E+00	2.40E+01	1.88E+00
372	3.99E+00	3.99E+00	1.38E+08	0.00E+00	2.37	11.77	0.1944	0	0.00E+00	2.60E+01	1.92E+00
373	3.98E+00	3.98E+00	1.38E+08	0.00E+00	2.37	11.72	0.1946	0	0.00E+00	2.81E+01	1.96E+00
374	3.97E+00	3.97E+00	1.38E+08	0.00E+00	2.38	11.66	0.1947	0	0.00E+00	3.02E+01	2.01E+00
375	3.97E+00	3.97E+00	1.38E+08	0.00E+00	2.38	11.62	0.1951	0	0.00E+00	3.25E+01	2.04E+00
376	3.96E+00	3.96E+00	1.38E+08	0.00E+00	2.39	11.63	0.196	0	0.00E+00	3.53E+01	2.06E+00
377	3.96E+00	3.96E+00	1.38E+08	0.00E+00	2.39	11.66	0.1971	0	0.00E+00	3.85E+01	2.07E+00
378	3.96E+00	3.96E+00	1.38E+08	0.00E+00	2.4	11.68	0.1983	0	0.00E+00	4.16E+01	2.08E+00
379	3.97E+00	3.97E+00	1.38E+08	0.00E+00	2.41	11.71	0.1995	0	0.00E+00	4.47E+01	2.09E+00
380	3.97E+00	3.97E+00	1.35E+08	2.43E+06	2.42	11.74	0.2007	0	0.00E+00	4.78E+01	2.10E+00
381	3.98E+00	3.98E+00	1.25E+08	1.26E+07	2.42	11.77	0.2018	0	0.00E+00	5.09E+01	2.11E+00
382	3.98E+00	3.98E+00	7.96E+07	5.79E+07	2.43	11.8	0.203	1.3	0.00E+00	5.23E+01	2.11E+00
383	4.02E+00	3.99E+00	3.17E+07	1.06E+08	2.44	11.83	0.204	3.8	2.53E+00	5.00E+01	2.11E+00
384	4.02E+00	3.99E+00	5.11E+07	8.63E+07	2.44	11.86	0.2051	6.3	2.53E+00	4.56E+01	2.11E+00
385	4.01E+00	3.99E+00	6.88E+07	6.86E+07	2.45	11.88	0.2061	8.8	2.53E+00	4.12E+01	2.10E+00
386	4.01E+00	3.99E+00	8.46E+07	5.29E+07	2.45	11.91	0.2071	11.4	2.53E+00	3.69E+01	2.10E+00
387	4.00E+00	3.99E+00	9.83E+07	3.91E+07	2.46	11.94	0.2081	13.9	2.53E+00	3.25E+01	2.09E+00
388	3.99E+00	3.99E+00	1.10E+08	2.74E+07	2.46	11.97	0.2091	16.4	2.53E+00	2.81E+01	2.09E+00
389	3.98E+00	3.99E+00	1.15E+08	2.22E+07	2.47	12	0.2102	17.7	2.53E+00	2.61E+01	2.08E+00
390	3.97E+00	3.99E+00	1.10E+08	2.74E+07	2.48	12.04	0.2114	16.4	-2.53E+00	2.98E+01	2.06E+00
391	3.96E+00	3.99E+00	9.83E+07	3.91E+07	2.48	12.08	0.2127	13.9	-2.53E+00	3.66E+01	2.05E+00

Cair (ppbv)	Evap (mm/d)	Case	InHeight (m)	Outheight (m)	Inflow (m ³ /s)	Outflow (m ³ /s)	Iexchange	Makeup	Makeup_ mass	Lake area (m ²)
4.28E+00	3.46E+07	4	4.40E+00	1.21E+01	1.12E-01	1.59E-01	4.70E-02	8.12E+03	1.47E-01	9.21E+06
4.11E+00	3.43E+07	4	4.40E+00	1.21E+01	1.12E-01	1.59E-01	4.70E-02	7.61E+03	1.33E-01	9.21E+06
3.94E+00	3.39E+07	4	4.40E+00	1.21E+01	1.12E-01	1.59E-01	4.70E-02	7.61E+03	1.33E-01	9.21E+06
3.76E+00	3.35E+07	4	4.40E+00	1.21E+01	1.12E-01	1.59E-01	4.70E-02	7.00E+03	1.15E-01	9.21E+06
3.59E+00	3.32E+07	4	4.40E+00	1.21E+01	1.17E-01	5.73E-01	4.56E-01	6.75E+03	1.09E-01	9.21E+06
3.49E+00	3.29E+07	4	4.40E+00	1.21E+01	1.23E-01	1.09E+00	9.64E-01	-1.21E+06	-5.73E+01	9.22E+06
3.54E+00	3.28E+07	4	4.40E+00	1.21E+01	1.33E-01	2.01E+00	1.88E+00	-2.37E+06	-1.12E+02	9.26E+06
3.67E+00	3.28E+07	4	4.40E+00	1.21E+01	1.33E-01	2.01E+00	1.88E+00	-2.36E+06	-1.11E+02	9.30E+06
3.79E+00	3.28E+07	4	4.40E+00	1.21E+01	1.33E-01	2.01E+00	1.88E+00	-2.34E+06	-1.09E+02	9.35E+06
3.91E+00	3.28E+07	4	4.40E+00	1.21E+01	1.33E-01	2.01E+00	1.88E+00	-2.32E+06	-1.08E+02	9.40E+06
4.03E+00	3.28E+07	4	4.40E+00	1.21E+01	1.33E-01	2.01E+00	1.88E+00	-2.31E+06	-1.07E+02	9.44E+06
4.16E+00	3.29E+07	4	4.40E+00	1.21E+01	1.33E-01	2.01E+00	1.88E+00	-2.29E+06	-1.06E+02	9.49E+06
4.27E+00	3.29E+07	4	4.40E+00	1.21E+01	1.67E-01	1.19E+00	1.02E+00	-1.21E+06	-5.53E+01	9.53E+06
4.36E+00	3.28E+07	4	4.40E+00	1.21E+01	2.00E-01	3.65E-01	1.65E-01	-9.17E+04	-4.19E+00	9.54E+06
4.44E+00	3.27E+07	4	4.40E+00	1.21E+01	2.00E-01	3.65E-01	1.65E-01	-9.18E+04	-4.17E+00	9.54E+06
4.51E+00	3.27E+07	4	4.40E+00	1.21E+01	2.00E-01	3.65E-01	1.65E-01	-9.18E+04	-4.16E+00	9.55E+06
4.59E+00	3.26E+07	4	4.40E+00	1.21E+01	2.00E-01	3.65E-01	1.65E-01	-9.18E+04	-4.15E+00	9.55E+06
4.67E+00	3.26E+07	4	4.40E+00	1.21E+01	2.00E-01	3.65E-01	1.65E-01	-9.18E+04	-4.14E+00	9.55E+06
4.75E+00	3.25E+07	4	4.40E+00	1.21E+01	2.00E-01	3.65E-01	1.65E-01	-9.18E+04	-4.14E+00	9.55E+06
4.82E+00	3.25E+07	4	4.40E+00	1.21E+01	3.18E-01	2.56E-01	-6.20E-02	-3.91E+04	-1.76E+00	9.56E+06
4.86E+00	3.26E+07	4	4.40E+00	1.21E+01	4.36E-01	1.47E-01	-2.89E-01	2.02E+04	4.72E-01	9.56E+06
4.90E+00	3.27E+07	4	4.40E+00	1.21E+01	4.36E-01	1.47E-01	-2.89E-01	2.04E+04	4.80E-01	9.56E+06
4.93E+00	3.29E+07	4	4.40E+00	1.21E+01	4.36E-01	1.47E-01	-2.89E-01	2.06E+04	4.88E-01	9.56E+06
4.97E+00	3.30E+07	4	4.40E+00	1.21E+01	4.36E-01	1.47E-01	-2.89E-01	2.06E+04	4.88E-01	9.56E+06
5.00E+00	3.31E+07	4	4.40E+00	1.21E+01	4.71E-01	1.49E-01	-3.23E-01	2.09E+04	5.01E-01	9.56E+06
5.03E+00	3.33E+07	4	4.40E+00	1.21E+01	4.71E-01	1.49E-01	-3.23E-01	2.09E+04	5.01E-01	9.56E+06
5.06E+00	3.34E+07	4	4.40E+00	1.21E+01	5.54E-01	1.53E-01	1.16E+08	-1.09E+05	-4.94E+00	9.56E+06
5.07E+00	3.35E+07	4	4.40E+00	1.21E+01	6.71E-01	1.59E-01	-2.02E+07	2.09E+04	5.00E-01	9.56E+06
5.07E+00	3.36E+07	4	4.40E+00	1.21E+01	6.71E-01	1.59E-01	-1.87E+07	2.10E+04	5.02E-01	9.56E+06
5.07E+00	3.38E+07	4	4.40E+00	1.21E+01	6.71E-01	1.59E-01	-1.67E+07	2.11E+04	5.04E-01	9.56E+06
5.08E+00	3.39E+07	4	4.40E+00	1.21E+01	6.71E-01	1.59E-01	-1.48E+07	2.13E+04	5.05E-01	9.56E+06
5.08E+00	3.40E+07	4	4.40E+00	1.21E+01	6.71E-01	1.59E-01	-1.27E+07	2.14E+04	5.07E-01	9.56E+06
5.08E+00	3.41E+07	3	4.40E+00	1.21E+01	6.71E-01	1.59E-01	-1.06E+07	2.15E+04	5.09E-01	9.56E+06
5.07E+00	3.42E+07	3	4.40E+00	1.21E+01	7.87E-01	1.54E-01	-3.05E+03	2.71E+04	6.38E-01	9.56E+06
5.06E+00	3.18E+07	3	4.40E+00	1.21E+01	9.03E-01	1.49E-01	1.06E+07	3.18E+04	7.45E-01	8.85E+06
5.04E+00	3.20E+07	4	4.40E+00	1.21E+01	9.03E-01	1.49E-01	1.27E+07	3.20E+04	7.42E-01	8.85E+06

Table C2. Model output from weekly model inputs for Lake Perris, California, methyl *tert*-butyl ether—Continued

Time	C(Epi) ($\mu\text{g/L}$)	C(Hypol) ($\mu\text{g/L}$)	VolEpi (m^3)	VolHyp (m^3)	U (m/s)	Tw ($^{\circ}\text{C}$)	kL (m/d)	MLD (kg/wk)	dMLD/dt	Input	Cs ($\mu\text{g/L}$)
392	3.96E+00	3.98E+00	8.45E+07	5.29E+07	2.49	12.13	0.214	11.3	-2.53E+00	4.34E+01	2.03E+00
393	3.97E+00	3.98E+00	6.86E+07	6.87E+07	2.5	12.17	0.2154	8.8	-2.53E+00	5.01E+01	2.01E+00
394	3.98E+00	3.98E+00	5.09E+07	8.65E+07	2.51	12.21	0.2167	6.3	-2.53E+00	5.69E+01	2.00E+00
395	4.02E+00	3.98E+00	3.14E+07	1.06E+08	2.51	12.25	0.2181	3.8	-2.53E+00	6.37E+01	1.98E+00
396	4.10E+00	3.99E+00	1.49E+07	1.23E+08	2.52	12.29	0.2194	1.7	-2.53E+00	6.88E+01	1.96E+00
397	4.23E+00	4.01E+00	8.14E+06	1.30E+08	2.53	12.33	0.2208	0.9	-8.69E-02	6.97E+01	1.94E+00
398	4.28E+00	4.01E+00	7.40E+06	1.31E+08	2.54	12.35	0.2222	0.8	-8.69E-02	6.82E+01	1.92E+00
399	4.29E+00	4.01E+00	6.65E+06	1.32E+08	2.54	12.38	0.2237	0.8	-8.69E-02	6.68E+01	1.90E+00
400	4.27E+00	4.02E+00	5.90E+06	1.33E+08	2.55	12.41	0.2251	0.7	-8.69E-02	6.53E+01	1.88E+00
401	4.22E+00	4.02E+00	5.15E+06	1.34E+08	2.56	12.44	0.2265	0.6	-8.69E-02	6.38E+01	1.86E+00
402	4.15E+00	4.02E+00	4.39E+06	1.35E+08	2.57	12.47	0.2279	0.5	-8.69E-02	6.23E+01	1.84E+00
403	4.07E+00	4.02E+00	3.79E+06	1.36E+08	2.58	12.5	0.2294	0.4	-4.98E-02	6.15E+01	1.82E+00
404	4.02E+00	4.02E+00	3.60E+06	1.37E+08	2.59	12.54	0.2308	0.4	-4.98E-02	6.28E+01	1.80E+00
405	4.01E+00	4.02E+00	3.67E+06	1.37E+08	2.59	12.58	0.2322	0.4	7.12E-03	6.52E+01	1.77E+00
406	4.03E+00	4.02E+00	3.74E+06	1.37E+08	2.6	12.62	0.2336	0.4	7.12E-03	6.76E+01	1.74E+00
407	4.06E+00	4.02E+00	3.80E+06	1.38E+08	2.61	12.67	0.235	0.4	7.12E-03	7.00E+01	1.72E+00
408	4.09E+00	4.02E+00	3.87E+06	1.38E+08	2.61	12.71	0.2364	0.4	7.12E-03	7.24E+01	1.69E+00
409	4.14E+00	4.02E+00	3.94E+06	1.38E+08	2.62	12.75	0.2378	0.4	7.12E-03	7.49E+01	1.67E+00
410	4.18E+00	4.02E+00	4.12E+06	1.39E+08	2.63	12.79	0.2392	0.5	3.44E-02	7.76E+01	1.64E+00
411	4.21E+00	4.02E+00	4.63E+06	1.39E+08	2.64	12.82	0.2407	0.5	3.44E-02	8.11E+01	1.62E+00
412	4.22E+00	4.02E+00	5.35E+06	1.38E+08	2.65	12.85	0.2421	0.6	7.98E-02	8.51E+01	1.59E+00
413	4.26E+00	4.02E+00	6.06E+06	1.38E+08	2.65	12.88	0.2436	0.7	7.98E-02	8.92E+01	1.57E+00
414	4.32E+00	4.02E+00	6.78E+06	1.38E+08	2.66	12.91	0.2451	0.8	7.98E-02	9.32E+01	1.54E+00
415	4.38E+00	4.02E+00	7.49E+06	1.38E+08	2.67	12.94	0.2466	0.8	7.98E-02	9.72E+01	1.52E+00
416	4.44E+00	4.02E+00	8.21E+06	1.38E+08	2.68	12.97	0.2481	0.9	7.98E-02	1.01E+02	1.49E+00
417	4.50E+00	4.02E+00	8.97E+06	1.37E+08	2.69	13	0.2496	1	9.19E-02	1.04E+02	1.47E+00
418	4.55E+00	4.02E+00	9.89E+06	1.37E+08	2.7	13.04	0.2512	1.1	9.19E-02	1.02E+02	1.44E+00
419	4.58E+00	4.02E+00	1.09E+07	1.36E+08	2.71	13.08	0.2529	1.2	1.14E-01	9.84E+01	1.42E+00
420	4.56E+00	4.02E+00	1.19E+07	1.35E+08	2.71	13.12	0.2545	1.3	1.14E-01	9.44E+01	1.39E+00
421	4.51E+00	4.02E+00	1.29E+07	1.34E+08	2.72	13.16	0.2562	1.4	1.14E-01	9.03E+01	1.37E+00
422	4.45E+00	4.02E+00	1.39E+07	1.34E+08	2.73	13.21	0.2579	1.6	1.14E-01	8.63E+01	1.34E+00
423	4.38E+00	4.02E+00	1.49E+07	1.33E+08	2.74	13.25	0.2596	1.7	1.14E-01	8.23E+01	1.31E+00
424	4.30E+00	4.02E+00	1.60E+07	1.32E+08	2.75	13.33	0.2616	1.8	1.14E-01	8.33E+01	1.29E+00
425	4.24E+00	4.02E+00	1.70E+07	1.32E+08	2.76	13.51	0.2648	1.9	1.23E-01	9.94E+01	1.24E+00
426	4.25E+00	4.02E+00	1.81E+07	1.31E+08	2.77	13.77	0.2688	2	1.23E-01	1.26E+02	1.20E+00
427	4.35E+00	4.02E+00	1.92E+07	1.31E+08	2.77	14.03	0.2728	2.2	1.23E-01	1.52E+02	1.15E+00

Cair (ppbv)	Evap (mm/d)	Case	InHeight (m)	Outheight (m)	Inflow (m ³ /s)	Outflow (m ³ /s)	Iexchange	Makeup	Makeup_ mass	Lake area (m ²)
5.02E+00	3.21E+07	4	4.40E+00	1.21E+01	9.03E-01	1.49E-01	1.49E+07	3.21E+04	7.40E-01	8.85E+06
5.00E+00	3.23E+07	4	4.40E+00	1.21E+01	9.03E-01	1.49E-01	1.68E+07	3.23E+04	7.37E-01	8.85E+06
4.97E+00	3.24E+07	4	4.40E+00	1.21E+01	9.03E-01	1.49E-01	1.87E+07	3.24E+04	7.34E-01	8.85E+06
4.95E+00	3.26E+07	4	4.40E+00	1.21E+01	9.03E-01	1.49E-01	2.02E+07	3.26E+04	7.32E-01	8.85E+06
4.93E+00	3.54E+07	4	4.40E+00	1.21E+01	2.94E+00	1.47E-01	1.30E+07	1.92E+05	4.27E+00	9.56E+06
4.89E+00	3.55E+07	4	4.40E+00	1.21E+01	4.97E+00	1.45E-01	1.12E+06	4.14E+05	9.12E+00	9.55E+06
4.86E+00	3.56E+07	4	4.40E+00	1.21E+01	4.97E+00	1.45E-01	1.12E+06	4.14E+05	9.04E+00	9.54E+06
4.82E+00	3.57E+07	4	4.40E+00	1.21E+01	4.97E+00	1.45E-01	1.13E+06	4.15E+05	8.95E+00	9.54E+06
4.78E+00	3.58E+07	4	4.40E+00	1.21E+01	4.97E+00	1.45E-01	1.13E+06	4.15E+05	8.87E+00	9.53E+06
4.74E+00	3.60E+07	4	4.40E+00	1.21E+01	4.97E+00	1.45E-01	1.14E+06	4.16E+05	8.78E+00	9.52E+06
4.70E+00	3.61E+07	4	4.40E+00	1.21E+01	4.97E+00	1.45E-01	1.14E+06	4.16E+05	8.69E+00	9.51E+06
4.66E+00	3.62E+07	4	4.40E+00	1.21E+01	5.07E+00	1.46E-01	8.16E+05	4.17E+05	8.60E+00	9.51E+06
4.62E+00	3.63E+07	4	4.40E+00	1.21E+01	5.16E+00	1.47E-01	3.15E+05	4.17E+05	8.50E+00	9.50E+06
4.57E+00	3.65E+07	4	4.40E+00	1.21E+01	5.16E+00	1.47E-01	3.15E+05	4.17E+05	8.38E+00	9.49E+06
4.52E+00	3.66E+07	4	4.40E+00	1.21E+01	5.16E+00	1.47E-01	3.15E+05	4.18E+05	8.26E+00	9.48E+06
4.47E+00	3.67E+07	4	4.40E+00	1.21E+01	5.16E+00	1.47E-01	3.15E+05	4.18E+05	8.14E+00	9.48E+06
4.42E+00	3.69E+07	4	4.40E+00	1.21E+01	5.16E+00	1.47E-01	3.16E+05	4.19E+05	8.03E+00	9.47E+06
4.37E+00	3.70E+07	4	4.40E+00	1.21E+01	5.16E+00	1.47E-01	3.16E+05	4.19E+05	7.91E+00	9.46E+06
4.32E+00	3.71E+07	4	4.40E+00	1.21E+01	5.91E+00	1.55E-01	1.22E+05	4.68E+05	8.70E+00	9.45E+06
4.26E+00	3.72E+07	4	4.40E+00	1.21E+01	6.66E+00	1.63E-01	-2.02E+05	5.48E+05	1.00E+01	9.44E+06
4.21E+00	3.73E+07	4	4.40E+00	1.21E+01	6.66E+00	1.63E-01	-2.02E+05	5.49E+05	9.90E+00	9.43E+06
4.16E+00	3.75E+07	4	4.40E+00	1.21E+01	6.66E+00	1.63E-01	-2.02E+05	5.49E+05	9.76E+00	9.42E+06
4.11E+00	3.76E+07	4	4.40E+00	1.21E+01	6.66E+00	1.63E-01	-2.02E+05	5.50E+05	9.62E+00	9.41E+06
4.05E+00	3.77E+07	4	4.40E+00	1.21E+01	6.66E+00	1.63E-01	-2.02E+05	5.51E+05	9.48E+00	9.40E+06
4.00E+00	3.78E+07	4	4.40E+00	1.21E+01	6.66E+00	1.63E-01	-2.02E+05	5.51E+05	9.34E+00	9.39E+06
3.95E+00	3.79E+07	4	4.40E+00	1.21E+01	6.04E+00	1.63E-01	-3.99E+05	4.61E+05	7.68E+00	9.38E+06
3.89E+00	3.80E+07	4	4.40E+00	1.21E+01	5.43E+00	1.63E-01	-7.55E+05	2.95E+05	4.84E+00	9.38E+06
3.84E+00	3.82E+07	4	4.40E+00	1.21E+01	5.43E+00	1.63E-01	-7.53E+05	2.96E+05	4.75E+00	9.37E+06
3.78E+00	3.83E+07	4	4.40E+00	1.21E+01	5.43E+00	1.63E-01	-7.51E+05	2.96E+05	4.67E+00	9.37E+06
3.73E+00	3.85E+07	4	4.40E+00	1.21E+01	5.43E+00	1.63E-01	-7.49E+05	2.96E+05	4.59E+00	9.36E+06
3.67E+00	3.87E+07	4	4.40E+00	1.21E+01	5.43E+00	1.63E-01	-7.48E+05	2.97E+05	4.51E+00	9.36E+06
3.61E+00	3.88E+07	4	4.40E+00	1.21E+01	5.43E+00	1.63E-01	-7.46E+05	2.97E+05	4.43E+00	9.35E+06
3.56E+00	3.91E+07	4	4.40E+00	1.21E+01	5.62E+00	1.59E-01	-6.03E+05	4.71E+05	6.87E+00	9.34E+06
3.51E+00	3.96E+07	4	4.40E+00	1.21E+01	5.81E+00	1.55E-01	-3.22E+05	8.15E+05	1.15E+01	9.33E+06
3.45E+00	4.02E+07	4	4.40E+00	1.21E+01	5.81E+00	1.55E-01	-3.22E+05	8.17E+05	1.11E+01	9.32E+06
3.40E+00	4.09E+07	4	4.40E+00	1.21E+01	5.81E+00	1.55E-01	-3.22E+05	8.19E+05	1.07E+01	9.30E+06

Table C2. Model output from weekly model inputs for Lake Perris, California, methyl *tert*-butyl ether—Continued

Time	C(Epi) ($\mu\text{g/L}$)	C(Hypol) ($\mu\text{g/L}$)	VolEpi (m^3)	VolHyp (m^3)	U (m/s)	Tw ($^{\circ}\text{C}$)	kL (m/d)	MLD (kg/wk)	dMLD/dt	Input	Cs ($\mu\text{g/L}$)
428	4.52E+00	4.02E+00	2.03E+07	1.31E+08	2.78	14.28	0.2769	2.3	1.23E-01	1.78E+02	1.11E+00
429	4.75E+00	4.02E+00	2.14E+07	1.31E+08	2.79	14.54	0.2809	2.4	1.23E-01	2.04E+02	1.06E+00
430	5.01E+00	4.02E+00	2.25E+07	1.30E+08	2.8	14.8	0.2851	2.5	1.23E-01	2.30E+02	1.02E+00
431	5.31E+00	4.02E+00	2.36E+07	1.30E+08	2.81	15.05	0.2892	2.6	1.23E-01	2.56E+02	9.81E-01
432	5.66E+00	4.02E+00	2.46E+07	1.29E+08	2.82	15.31	0.2932	2.8	1.13E-01	2.83E+02	9.43E-01
433	6.07E+00	4.02E+00	2.56E+07	1.28E+08	2.82	15.57	0.2973	2.9	1.13E-01	3.09E+02	9.06E-01
434	6.49E+00	4.02E+00	2.66E+07	1.27E+08	2.83	15.82	0.3013	3	1.13E-01	3.35E+02	8.71E-01
435	6.91E+00	4.02E+00	2.75E+07	1.27E+08	2.84	16.08	0.3054	3.1	1.13E-01	3.62E+02	8.36E-01
436	7.33E+00	4.02E+00	2.85E+07	1.26E+08	2.84	16.34	0.3095	3.2	1.13E-01	3.88E+02	8.03E-01
437	7.75E+00	4.02E+00	2.95E+07	1.25E+08	2.85	16.59	0.3137	3.3	1.13E-01	4.14E+02	7.71E-01
438	8.16E+00	4.02E+00	3.04E+07	1.24E+08	2.86	16.81	0.3174	3.4	1.13E-01	4.36E+02	7.43E-01
439	8.56E+00	4.02E+00	3.13E+07	1.23E+08	2.87	16.88	0.3194	3.5	9.26E-02	4.44E+02	7.27E-01
440	8.93E+00	4.02E+00	3.21E+07	1.22E+08	2.87	16.85	0.3203	3.6	9.26E-02	4.42E+02	7.17E-01
441	9.24E+00	4.02E+00	3.28E+07	1.22E+08	2.88	16.82	0.3212	3.7	9.26E-02	4.39E+02	7.07E-01
442	9.51E+00	4.02E+00	3.36E+07	1.21E+08	2.89	16.79	0.3221	3.8	9.26E-02	4.36E+02	6.97E-01
443	9.73E+00	4.02E+00	3.44E+07	1.20E+08	2.89	16.76	0.323	3.9	9.26E-02	4.34E+02	6.88E-01
444	9.91E+00	4.02E+00	3.52E+07	1.19E+08	2.9	16.73	0.3239	4	9.26E-02	4.31E+02	6.78E-01
445	1.01E+01	4.02E+00	3.59E+07	1.19E+08	2.91	16.71	0.3249	4.1	8.58E-02	4.34E+02	6.68E-01
446	1.02E+01	4.02E+00	3.65E+07	1.18E+08	2.92	16.69	0.3259	4.2	6.84E-02	4.58E+02	6.59E-01
447	1.05E+01	4.02E+00	3.71E+07	1.17E+08	2.92	16.67	0.3269	4.2	6.84E-02	4.95E+02	6.49E-01
448	1.08E+01	4.02E+00	3.77E+07	1.17E+08	2.93	16.66	0.328	4.3	6.84E-02	5.33E+02	6.40E-01
449	1.11E+01	4.02E+00	3.82E+07	1.16E+08	2.94	16.65	0.3291	4.4	6.84E-02	5.70E+02	6.30E-01
450	1.15E+01	4.02E+00	3.88E+07	1.15E+08	2.94	16.63	0.3301	4.4	6.84E-02	6.08E+02	6.21E-01
451	1.19E+01	4.02E+00	3.93E+07	1.14E+08	2.95	16.62	0.3312	4.5	6.84E-02	6.45E+02	6.12E-01
452	1.24E+01	4.02E+00	3.98E+07	1.14E+08	2.96	16.6	0.3322	4.6	6.10E-02	6.73E+02	6.02E-01
453	1.29E+01	4.02E+00	4.02E+07	1.13E+08	2.96	16.58	0.333	4.6	6.10E-02	6.61E+02	5.94E-01
454	1.32E+01	4.02E+00	4.06E+07	1.13E+08	2.97	16.55	0.3337	4.7	3.99E-02	6.21E+02	5.87E-01
455	1.35E+01	4.02E+00	4.09E+07	1.13E+08	2.98	16.52	0.3343	4.7	3.99E-02	5.80E+02	5.80E-01
456	1.36E+01	4.02E+00	4.12E+07	1.12E+08	2.98	16.49	0.335	4.7	3.99E-02	5.40E+02	5.72E-01
457	1.37E+01	4.02E+00	4.15E+07	1.12E+08	2.99	16.46	0.3356	4.8	3.99E-02	4.99E+02	5.65E-01
458	1.36E+01	4.02E+00	4.19E+07	1.12E+08	2.99	16.44	0.3363	4.8	3.99E-02	4.58E+02	5.57E-01
459	1.35E+01	4.02E+00	4.22E+07	1.11E+08	3	16.41	0.3369	4.9	3.48E-02	4.24E+02	5.50E-01
460	1.34E+01	4.02E+00	4.24E+07	1.11E+08	3	16.38	0.3376	4.9	3.48E-02	4.15E+02	5.44E-01
461	1.33E+01	4.02E+00	4.25E+07	1.11E+08	3.01	16.35	0.3382	4.9	1.85E-02	4.26E+02	5.38E-01
462	1.32E+01	4.02E+00	4.27E+07	1.11E+08	3.02	16.32	0.3389	4.9	1.85E-02	4.37E+02	5.33E-01
463	1.32E+01	4.02E+00	4.28E+07	1.11E+08	3.02	16.29	0.3395	4.9	1.85E-02	4.48E+02	5.27E-01

Cair (ppbv)	Evap (mm/d)	Case	InHeight (m)	Outheight (m)	Inflow (m ³ /s)	Outflow (m ³ /s)	Iexchange	Makeup	Makeup_ mass	Lake area (m ²)
3.35E+00	4.15E+07	4	4.40E+00	1.21E+01	5.81E+00	1.55E-01	-3.21E+05	8.21E+05	1.03E+01	9.29E+06
3.30E+00	4.22E+07	4	4.40E+00	1.21E+01	5.81E+00	1.55E-01	-3.21E+05	8.23E+05	9.92E+00	9.27E+06
3.24E+00	4.29E+07	4	4.40E+00	1.21E+01	5.81E+00	1.55E-01	-3.21E+05	8.25E+05	9.56E+00	9.26E+06
3.19E+00	4.36E+07	4	4.40E+00	1.21E+01	3.30E+00	1.61E-01	-4.88E+05	6.20E+05	6.90E+00	9.24E+06
3.14E+00	4.43E+07	4	4.40E+00	1.21E+01	7.93E-01	1.67E-01	-8.48E+05	1.75E+05	1.87E+00	9.24E+06
3.09E+00	4.51E+07	4	4.40E+00	1.21E+01	7.93E-01	1.67E-01	-8.46E+05	1.76E+05	1.81E+00	9.23E+06
3.04E+00	4.58E+07	4	4.40E+00	1.21E+01	7.93E-01	1.67E-01	-8.43E+05	1.77E+05	1.74E+00	9.23E+06
2.99E+00	4.66E+07	4	4.40E+00	1.21E+01	7.93E-01	1.67E-01	-8.41E+05	1.77E+05	1.68E+00	9.23E+06
2.94E+00	4.74E+07	4	4.40E+00	1.21E+01	7.93E-01	1.67E-01	-8.39E+05	1.78E+05	1.62E+00	9.23E+06
2.89E+00	4.82E+07	4	4.40E+00	1.21E+01	7.93E-01	1.67E-01	-8.37E+05	1.79E+05	1.57E+00	9.22E+06
2.84E+00	4.89E+07	4	4.40E+00	1.21E+01	5.70E-01	1.63E-01	-8.20E+05	1.41E+05	1.19E+00	9.22E+06
2.79E+00	4.92E+07	4	4.40E+00	1.21E+01	3.47E-01	1.59E-01	-7.84E+05	4.92E+04	4.06E-01	9.22E+06
2.75E+00	4.92E+07	4	4.40E+00	1.21E+01	3.47E-01	1.59E-01	-7.82E+05	4.92E+04	4.00E-01	9.22E+06
2.71E+00	4.92E+07	4	4.40E+00	1.21E+01	3.47E-01	1.59E-01	-7.80E+05	4.92E+04	3.95E-01	9.22E+06
2.66E+00	4.92E+07	4	4.40E+00	1.21E+01	3.47E-01	1.59E-01	-7.78E+05	4.92E+04	3.89E-01	9.22E+06
2.62E+00	4.92E+07	4	4.40E+00	1.21E+01	3.47E-01	1.59E-01	-7.76E+05	4.92E+04	3.84E-01	9.22E+06
2.57E+00	4.92E+07	4	4.40E+00	1.21E+01	3.47E-01	1.59E-01	-7.74E+05	4.92E+04	3.78E-01	9.22E+06
2.53E+00	4.92E+07	4	4.40E+00	1.21E+01	3.34E-01	1.59E-01	-7.49E+05	1.27E+04	9.64E-02	9.22E+06
2.49E+00	4.92E+07	4	4.40E+00	1.21E+01	3.20E-01	1.59E-01	-6.87E+05	-8.16E+04	-9.48E+00	9.22E+06
2.45E+00	4.93E+07	4	4.40E+00	1.21E+01	3.20E-01	1.59E-01	-6.86E+05	-8.15E+04	-9.69E+00	9.23E+06
2.41E+00	4.93E+07	4	4.40E+00	1.21E+01	3.20E-01	1.59E-01	-6.84E+05	-8.14E+04	-9.96E+00	9.23E+06
2.37E+00	4.94E+07	4	4.40E+00	1.21E+01	3.20E-01	1.59E-01	-6.83E+05	-8.13E+04	-1.03E+01	9.23E+06
2.34E+00	4.95E+07	4	4.40E+00	1.21E+01	3.20E-01	1.59E-01	-6.81E+05	-8.12E+04	-1.06E+01	9.23E+06
2.30E+00	4.95E+07	4	4.40E+00	1.21E+01	3.20E-01	1.59E-01	-6.80E+05	-8.11E+04	-1.10E+01	9.24E+06
2.26E+00	4.95E+07	4	4.40E+00	1.21E+01	4.44E-01	1.67E-01	-5.87E+05	-4.72E+04	-6.63E+00	9.24E+06
2.23E+00	4.96E+07	4	4.40E+00	1.21E+01	5.67E-01	1.75E-01	-3.27E+05	4.96E+04	3.34E-01	9.24E+06
2.19E+00	4.95E+07	4	4.40E+00	1.21E+01	5.67E-01	1.75E-01	-3.27E+05	4.95E+04	3.30E-01	9.24E+06
2.16E+00	4.95E+07	4	4.40E+00	1.21E+01	5.67E-01	1.75E-01	-3.26E+05	4.95E+04	3.26E-01	9.24E+06
2.13E+00	4.95E+07	4	4.40E+00	1.21E+01	5.67E-01	1.75E-01	-3.26E+05	4.95E+04	3.21E-01	9.24E+06
2.09E+00	4.95E+07	4	4.40E+00	1.21E+01	5.67E-01	1.75E-01	-3.26E+05	4.95E+04	3.17E-01	9.24E+06
2.06E+00	4.95E+07	4	4.40E+00	1.21E+01	5.67E-01	1.75E-01	-3.25E+05	4.95E+04	3.13E-01	9.24E+06
2.03E+00	4.95E+07	4	4.40E+00	1.21E+01	4.73E-01	1.73E-01	-2.83E+05	4.95E+04	3.09E-01	9.24E+06
2.00E+00	4.94E+07	4	4.40E+00	1.21E+01	3.79E-01	1.71E-01	-1.51E+05	4.94E+04	3.05E-01	9.24E+06
1.98E+00	4.94E+07	4	4.40E+00	1.21E+01	3.79E-01	1.71E-01	-1.51E+05	4.94E+04	3.02E-01	9.24E+06
1.95E+00	4.94E+07	4	4.40E+00	1.21E+01	3.79E-01	1.71E-01	-1.51E+05	4.94E+04	2.98E-01	9.24E+06
1.92E+00	4.94E+07	4	4.40E+00	1.21E+01	3.79E-01	1.71E-01	-1.50E+05	4.94E+04	2.95E-01	9.24E+06

Table C2. Model output from weekly model inputs for Lake Perris, California, methyl *tert*-butyl ether—Continued

Time	C(Epi) (µg/L)	C(Hypol) (µg/L)	VolEpi (m ³)	VolHyp (m ³)	U (m/s)	Tw (°C)	kL (m/d)	MLD (kg/wk)	dMLD/dt	Input	Cs (µg/L)
464	1.31E+01	4.02E+00	4.30E+07	1.11E+08	3.03	16.26	0.3402	5	1.85E-02	4.58E+02	5.21E-01
465	1.31E+01	4.02E+00	4.31E+07	1.10E+08	3.03	16.24	0.3408	5	1.85E-02	4.69E+02	5.16E-01
466	1.32E+01	4.02E+00	4.33E+07	1.10E+08	3.04	16.23	0.3417	5	1.41E-02	4.82E+02	5.09E-01
467	1.32E+01	4.02E+00	4.33E+07	1.10E+08	3.04	16.35	0.3441	5	1.41E-02	5.01E+02	4.97E-01
468	1.33E+01	4.02E+00	4.33E+07	1.10E+08	3.05	16.57	0.3477	5	-1.42E-03	5.26E+02	4.82E-01
469	1.34E+01	4.02E+00	4.33E+07	1.10E+08	3.05	16.78	0.3512	5	-1.42E-03	5.52E+02	4.68E-01
470	1.36E+01	4.02E+00	4.33E+07	1.10E+08	3.06	17	0.3547	5	-1.42E-03	5.77E+02	4.54E-01
471	1.38E+01	4.03E+00	4.33E+07	1.10E+08	3.06	17.21	0.3583	5	-1.42E-03	6.02E+02	4.40E-01
472	1.40E+01	4.03E+00	4.33E+07	1.10E+08	3.06	17.42	0.3619	5	-1.42E-03	6.27E+02	4.26E-01
473	1.43E+01	4.03E+00	4.32E+07	1.10E+08	3.07	17.64	0.3654	5	-1.42E-03	6.50E+02	4.14E-01
474	1.45E+01	4.03E+00	4.32E+07	1.10E+08	3.07	17.86	0.369	5	-1.57E-02	6.58E+02	4.01E-01
475	1.47E+01	4.04E+00	4.30E+07	1.11E+08	3.07	18.09	0.3726	5	-1.57E-02	6.54E+02	3.89E-01
476	1.49E+01	4.06E+00	4.29E+07	1.11E+08	3.08	18.32	0.3762	4.9	-1.57E-02	6.51E+02	3.78E-01
477	1.50E+01	4.07E+00	4.28E+07	1.11E+08	3.08	18.54	0.3798	4.9	-1.57E-02	6.48E+02	3.67E-01
478	1.52E+01	4.08E+00	4.27E+07	1.11E+08	3.08	18.77	0.3834	4.9	-1.57E-02	6.45E+02	3.56E-01
479	1.52E+01	4.09E+00	4.25E+07	1.11E+08	3.09	19	0.387	4.9	-1.57E-02	6.42E+02	3.45E-01
480	1.53E+01	4.11E+00	4.24E+07	1.11E+08	3.09	19.23	0.3907	4.9	-1.57E-02	6.39E+02	3.35E-01
481	1.54E+01	4.12E+00	4.22E+07	1.11E+08	3.09	19.45	0.3942	4.9	-2.14E-02	6.37E+02	3.26E-01
482	1.54E+01	4.14E+00	4.21E+07	1.12E+08	3.09	19.66	0.3977	4.8	-2.14E-02	6.36E+02	3.18E-01
483	1.54E+01	4.15E+00	4.19E+07	1.12E+08	3.1	19.87	0.4012	4.8	-2.14E-02	6.35E+02	3.10E-01
484	1.54E+01	4.17E+00	4.17E+07	1.12E+08	3.1	20.09	0.4047	4.8	-2.14E-02	6.34E+02	3.02E-01
485	1.54E+01	4.19E+00	4.15E+07	1.12E+08	3.1	20.3	0.4082	4.8	-2.14E-02	6.33E+02	2.94E-01
486	1.53E+01	4.21E+00	4.14E+07	1.12E+08	3.11	20.51	0.4117	4.8	-2.14E-02	6.33E+02	2.87E-01
487	1.53E+01	4.22E+00	4.12E+07	1.12E+08	3.11	20.73	0.4152	4.7	-2.14E-02	6.30E+02	2.80E-01
488	1.52E+01	4.24E+00	4.10E+07	1.13E+08	3.11	20.94	0.4186	4.7	-1.99E-02	6.19E+02	2.73E-01
489	1.52E+01	4.24E+00	4.08E+07	1.13E+08	3.11	21.16	0.4219	4.7	-1.99E-02	6.01E+02	2.67E-01
490	1.50E+01	4.25E+00	4.07E+07	1.13E+08	3.11	21.37	0.4252	4.7	-1.99E-02	5.83E+02	2.60E-01
491	1.49E+01	4.25E+00	4.05E+07	1.13E+08	3.12	21.58	0.4285	4.7	-1.99E-02	5.64E+02	2.54E-01
492	1.47E+01	4.26E+00	4.03E+07	1.13E+08	3.12	21.8	0.4318	4.6	-1.99E-02	5.46E+02	2.48E-01
493	1.45E+01	4.26E+00	4.01E+07	1.13E+08	3.12	22.01	0.4351	4.6	-1.99E-02	5.28E+02	2.43E-01
494	1.42E+01	4.27E+00	4.00E+07	1.13E+08	3.12	22.24	0.4385	4.6	-1.89E-02	5.12E+02	2.37E-01
495	1.39E+01	4.27E+00	3.98E+07	1.13E+08	3.12	22.58	0.4435	4.6	-1.28E-02	5.13E+02	2.29E-01
496	1.37E+01	4.27E+00	3.97E+07	1.13E+08	3.12	23.03	0.4498	4.6	-1.28E-02	5.28E+02	2.19E-01
497	1.35E+01	4.27E+00	3.95E+07	1.12E+08	3.12	23.47	0.456	4.6	-1.28E-02	5.43E+02	2.10E-01
498	1.33E+01	4.27E+00	3.94E+07	1.12E+08	3.12	23.91	0.4622	4.5	-1.28E-02	5.58E+02	2.02E-01
499	1.31E+01	4.27E+00	3.93E+07	1.12E+08	3.12	24.35	0.4685	4.5	-1.28E-02	5.73E+02	1.94E-01

Cair (ppbv)	Evap (mm/d)	Case	InHeight (m)	Outheight (m)	Inflow (m ³ /s)	Outflow (m ³ /s)	Iexchange	Makeup	Makeup_ mass	Lake area (m ²)
1.90E+00	4.94E+07	4	4.40E+00	1.21E+01	3.79E-01	1.71E-01	-1.50E+05	4.94E+04	2.92E-01	9.24E+06
1.87E+00	4.94E+07	4	4.40E+00	1.21E+01	3.79E-01	1.71E-01	-1.50E+05	4.94E+04	2.89E-01	9.24E+06
1.85E+00	4.94E+07	4	4.40E+00	1.21E+01	2.85E-01	1.72E-01	-1.14E+05	4.94E+04	2.85E-01	9.24E+06
1.83E+00	4.98E+07	4	4.40E+00	1.21E+01	1.90E-01	1.73E-01	1.16E+04	4.98E+04	2.81E-01	9.24E+06
1.81E+00	5.05E+07	4	4.40E+00	1.21E+01	1.90E-01	1.73E-01	1.16E+04	5.11E+04	2.73E-01	9.24E+06
1.79E+00	5.12E+07	4	4.40E+00	1.21E+01	1.90E-01	1.73E-01	1.16E+04	5.23E+04	2.65E-01	9.24E+06
1.77E+00	5.20E+07	4	4.40E+00	1.21E+01	1.90E-01	1.73E-01	1.16E+04	5.23E+04	2.65E-01	9.24E+06
1.75E+00	5.27E+07	4	4.40E+00	1.21E+01	1.90E-01	1.73E-01	1.16E+04	5.33E+04	2.59E-01	9.24E+06
1.73E+00	5.34E+07	4	4.40E+00	1.21E+01	1.94E-01	1.73E-01	1.16E+04	5.39E+04	2.56E-01	9.24E+06
1.71E+00	5.42E+07	4	4.40E+00	1.21E+01	2.03E-01	1.72E-01	3.49E+04	5.42E+04	2.54E-01	9.24E+06
1.69E+00	5.49E+07	4	4.40E+00	1.21E+01	2.16E-01	1.71E-01	1.27E+05	5.49E+04	2.50E-01	9.24E+06
1.67E+00	5.57E+07	4	4.40E+00	1.21E+01	2.16E-01	1.71E-01	1.27E+05	5.58E+04	2.46E-01	9.24E+06
1.66E+00	5.65E+07	4	4.40E+00	1.21E+01	2.16E-01	1.71E-01	1.27E+05	5.67E+04	2.41E-01	9.24E+06
1.64E+00	5.73E+07	4	4.40E+00	1.21E+01	2.16E-01	1.71E-01	1.27E+05	5.74E+04	2.38E-01	9.24E+06
1.63E+00	5.82E+07	4	4.40E+00	1.21E+01	2.16E-01	1.71E-01	1.27E+05	5.84E+04	2.34E-01	9.24E+06
1.61E+00	5.90E+07	4	4.40E+00	1.21E+01	2.16E-01	1.71E-01	1.27E+05	5.90E+04	2.31E-01	9.24E+06
1.60E+00	5.98E+07	4	4.40E+00	1.21E+01	1.65E-01	1.09E-01	1.36E+05	5.98E+04	2.27E-01	9.24E+06
1.58E+00	6.07E+07	4	4.40E+00	1.21E+01	1.14E-01	4.70E-02	1.74E+05	6.07E+04	2.24E-01	9.24E+06
1.57E+00	6.15E+07	4	4.40E+00	1.21E+01	1.14E-01	4.70E-02	1.74E+05	6.15E+04	2.22E-01	9.24E+06
1.56E+00	6.23E+07	4	4.40E+00	1.21E+01	1.14E-01	4.70E-02	1.74E+05	6.23E+04	2.19E-01	9.24E+06
1.55E+00	6.31E+07	4	4.40E+00	1.21E+01	1.14E-01	4.70E-02	1.74E+05	6.31E+04	2.16E-01	9.24E+06
1.54E+00	6.40E+07	4	4.40E+00	1.21E+01	1.14E-01	4.70E-02	1.74E+05	6.41E+04	2.13E-01	9.24E+06
1.53E+00	6.48E+07	4	4.40E+00	1.21E+01	1.14E-01	4.70E-02	1.75E+05	6.49E+04	2.11E-01	9.24E+06
1.52E+00	6.57E+07	4	4.40E+00	1.21E+01	1.27E-01	2.35E-02	1.54E+05	4.43E+04	1.41E-01	9.24E+06
1.52E+00	6.65E+07	4	4.40E+00	1.21E+01	1.39E-01	0.00E+00	4.66E+04	-6.40E+04	-1.11E+01	9.24E+06
1.51E+00	6.74E+07	4	4.40E+00	1.21E+01	1.39E-01	0.00E+00	4.66E+04	-6.31E+04	-1.09E+01	9.24E+06
1.50E+00	6.83E+07	4	4.40E+00	1.21E+01	1.39E-01	0.00E+00	4.66E+04	-6.22E+04	-1.06E+01	9.25E+06
1.49E+00	6.92E+07	4	4.40E+00	1.21E+01	1.39E-01	0.00E+00	4.66E+04	-6.12E+04	-1.03E+01	9.25E+06
1.49E+00	7.01E+07	4	4.40E+00	1.21E+01	1.39E-01	0.00E+00	4.66E+04	-6.02E+04	-1.00E+01	9.25E+06
1.48E+00	7.11E+07	4	4.40E+00	1.21E+01	1.39E-01	0.00E+00	4.66E+04	-5.92E+04	-9.70E+00	9.25E+06
1.47E+00	7.21E+07	4	4.40E+00	1.21E+01	1.84E-01	0.00E+00	2.14E+04	-7.71E+04	-1.24E+01	9.26E+06
1.47E+00	7.36E+07	4	4.40E+00	1.21E+01	2.28E-01	0.00E+00	-1.28E+05	-1.87E+05	-2.96E+01	9.26E+06
1.46E+00	7.55E+07	4	4.40E+00	1.21E+01	2.28E-01	0.00E+00	-1.28E+05	-1.85E+05	-2.87E+01	9.26E+06
1.46E+00	7.75E+07	4	4.40E+00	1.21E+01	2.28E-01	0.00E+00	-1.28E+05	-1.83E+05	-2.79E+01	9.27E+06
1.45E+00	7.95E+07	4	4.40E+00	1.21E+01	2.28E-01	0.00E+00	-1.28E+05	-1.81E+05	-2.72E+01	9.27E+06
1.45E+00	8.16E+07	4	4.40E+00	1.21E+01	2.28E-01	0.00E+00	-1.28E+05	-1.78E+05	-2.65E+01	9.28E+06

Table C2. Model output from weekly model inputs for Lake Perris, California, methyl *tert*-butyl ether—Continued

Time	C(Epi) (µg/L)	C(Hypol) (µg/L)	VolEpi (m ³)	VolHyp (m ³)	U (m/s)	Tw (°C)	kL (m/d)	MLD (kg/wk)	dMLD/dt	Input	Cs (µg/L)
500	1.30E+01	4.27E+00	3.91E+07	1.12E+08	3.12	24.79	0.4747	4.5	-1.28E-02	5.88E+02	1.86E-01
501	1.29E+01	4.27E+00	3.90E+07	1.12E+08	3.12	25.2	0.4805	4.5	-1.14E-02	6.03E+02	1.79E-01
502	1.28E+01	4.27E+00	3.90E+07	1.12E+08	3.12	25.34	0.4825	4.5	-1.14E-02	6.22E+02	1.76E-01
503	1.28E+01	4.27E+00	3.89E+07	1.12E+08	3.12	25.24	0.4811	4.5	-1.42E-03	6.43E+02	1.78E-01
504	1.28E+01	4.27E+00	3.89E+07	1.12E+08	3.12	25.14	0.4797	4.5	-1.42E-03	6.63E+02	1.79E-01
505	1.29E+01	4.27E+00	3.89E+07	1.12E+08	3.12	25.04	0.4783	4.5	-1.42E-03	6.84E+02	1.81E-01
506	1.30E+01	4.27E+00	3.89E+07	1.12E+08	3.12	24.94	0.4769	4.5	-1.42E-03	7.05E+02	1.82E-01
507	1.32E+01	4.27E+00	3.89E+07	1.12E+08	3.12	24.84	0.4756	4.5	-1.42E-03	7.26E+02	1.83E-01
508	1.34E+01	4.27E+00	3.89E+07	1.12E+08	3.12	24.74	0.4741	4.5	8.22E-05	7.46E+02	1.85E-01
509	1.36E+01	4.27E+00	3.90E+07	1.12E+08	3.12	24.64	0.4725	4.5	8.22E-05	7.55E+02	1.86E-01
510	1.37E+01	4.27E+00	3.91E+07	1.12E+08	3.12	24.54	0.4709	4.5	1.28E-02	7.53E+02	1.88E-01
511	1.39E+01	4.27E+00	3.92E+07	1.12E+08	3.12	24.44	0.4692	4.5	1.28E-02	7.52E+02	1.89E-01
512	1.40E+01	4.27E+00	3.93E+07	1.12E+08	3.11	24.34	0.4675	4.5	1.28E-02	7.50E+02	1.90E-01
513	1.41E+01	4.27E+00	3.94E+07	1.12E+08	3.11	24.24	0.4658	4.5	1.28E-02	7.49E+02	1.92E-01
514	1.43E+01	4.27E+00	3.95E+07	1.11E+08	3.11	24.14	0.4641	4.6	1.28E-02	7.47E+02	1.93E-01
515	1.44E+01	4.27E+00	3.96E+07	1.11E+08	3.11	24.05	0.4624	4.6	1.44E-02	7.45E+02	1.95E-01
516	1.44E+01	4.27E+00	3.98E+07	1.11E+08	3.11	24.05	0.4619	4.6	3.13E-02	7.35E+02	1.95E-01
1816	4.19E+00	4.19E+00	1.55E+08	0.00E+00	2.48	12.71	0.2174	0	0.00E+00	1.82E+01	1.64E+00
1817	4.16E+00	4.16E+00	1.55E+08	0.00E+00	2.47	12.57	0.2152	0	0.00E+00	2.04E+01	1.59E+00
1818	4.14E+00	4.14E+00	1.55E+08	0.00E+00	2.46	12.43	0.213	0	0.00E+00	2.26E+01	1.55E+00
1819	4.13E+00	4.13E+00	1.55E+08	0.00E+00	2.45	12.28	0.2108	0	0.00E+00	2.47E+01	1.50E+00
1820	4.11E+00	4.11E+00	1.55E+08	0.00E+00	2.45	12.14	0.2086	0	0.00E+00	2.69E+01	1.45E+00
1821	4.09E+00	4.09E+00	1.55E+08	0.00E+00	2.44	12.03	0.2065	0	0.00E+00	2.81E+01	1.42E+00
1822	4.08E+00	4.08E+00	1.53E+08	0.00E+00	2.43	12	0.2047	0	0.00E+00	2.75E+01	1.45E+00
1823	4.06E+00	4.06E+00	1.50E+08	0.00E+00	2.41	12	0.2029	0	0.00E+00	2.59E+01	1.50E+00
1824	4.04E+00	4.04E+00	1.48E+08	0.00E+00	2.4	12	0.2011	0	0.00E+00	2.42E+01	1.55E+00
1825	4.03E+00	4.03E+00	1.46E+08	0.00E+00	2.39	12	0.1993	0	0.00E+00	2.26E+01	1.60E+00

Cair (ppbv)	Evap (mm/d)	Case	InHeight (m)	Outheight (m)	Inflow (m³/s)	Outflow (m³/s)	lexchange	Makeup	Makeup_ mass	Lake area (m²)
1.45E+00	8.37E+07	4	4.40E+00	1.21E+01	2.28E-01	0.00E+00	-1.28E+05	-1.76E+05	-2.59E+01	9.29E+06
1.44E+00	8.57E+07	4	4.40E+00	1.21E+01	1.60E-01	0.00E+00	-1.10E+05	-1.42E+05	-2.07E+01	9.29E+06
1.44E+00	8.64E+07	4	4.40E+00	1.21E+01	9.20E-02	0.00E+00	1.16E+04	8.64E+04	1.73E-01	9.29E+06
1.44E+00	8.59E+07	4	4.40E+00	1.21E+01	9.20E-02	0.00E+00	1.16E+04	8.57E+04	1.74E-01	9.29E+06
1.44E+00	8.55E+07	4	4.40E+00	1.21E+01	9.20E-02	0.00E+00	1.16E+04	8.52E+04	1.74E-01	9.29E+06
1.43E+00	8.50E+07	4	4.40E+00	1.21E+01	9.20E-02	0.00E+00	1.16E+04	8.44E+04	1.75E-01	9.29E+06
1.43E+00	8.46E+07	4	4.40E+00	1.21E+01	9.20E-02	0.00E+00	1.16E+04	8.44E+04	1.75E-01	9.29E+06
1.43E+00	8.41E+07	4	4.40E+00	1.21E+01	9.20E-02	0.00E+00	1.16E+04	8.39E+04	1.75E-01	9.29E+06
1.43E+00	8.36E+07	4	4.40E+00	1.21E+01	2.05E-01	2.06E-02	-6.71E+02	8.36E+04	1.75E-01	9.29E+06
1.43E+00	8.32E+07	4	4.40E+00	1.21E+01	3.18E-01	4.10E-02	-1.05E+05	8.32E+04	1.76E-01	9.29E+06
1.43E+00	8.27E+07	4	4.40E+00	1.21E+01	3.18E-01	4.10E-02	-1.05E+05	8.25E+04	1.76E-01	9.29E+06
1.43E+00	8.22E+07	4	4.40E+00	1.21E+01	3.18E-01	4.10E-02	-1.05E+05	8.22E+04	1.76E-01	9.29E+06
1.42E+00	8.18E+07	4	4.40E+00	1.21E+01	3.18E-01	4.10E-02	-1.05E+05	8.18E+04	1.77E-01	9.29E+06
1.42E+00	8.13E+07	4	4.40E+00	1.21E+01	3.18E-01	4.10E-02	-1.04E+05	8.12E+04	1.77E-01	9.29E+06
1.42E+00	8.08E+07	4	4.40E+00	1.21E+01	3.18E-01	4.10E-02	-1.04E+05	8.07E+04	1.77E-01	9.29E+06
1.42E+00	8.04E+07	4	4.40E+00	1.21E+01	5.79E-01	8.64E-01	-1.17E+05	8.04E+04	1.78E-01	9.29E+06
1.42E+00	8.04E+07	4	4.40E+00	1.21E+01	8.40E-01	1.69E+00	-2.55E+05	8.04E+04	1.78E-01	9.29E+06
4.28E+00	3.46E+07	4	4.40E+00	1.21E+01	1.12E-01	1.59E-01	4.70E-02	8.26E+03	1.52E-01	9.21E+06
4.11E+00	3.43E+07	4	4.40E+00	1.21E+01	1.12E-01	1.59E-01	4.70E-02	7.96E+03	1.43E-01	9.21E+06
3.94E+00	3.39E+07	4	4.40E+00	1.21E+01	1.12E-01	1.59E-01	4.70E-02	7.39E+03	1.26E-01	9.21E+06
3.76E+00	3.35E+07	4	4.40E+00	1.21E+01	1.12E-01	1.59E-01	4.70E-02	6.85E+03	1.11E-01	9.21E+06
3.59E+00	3.32E+07	4	4.40E+00	1.21E+01	1.12E-01	1.59E-01	4.70E-02	6.85E+03	1.11E-01	9.21E+06
3.49E+00	3.29E+07	4	4.40E+00	1.21E+01	1.23E-01	1.09E+00	9.64E-01	-1.21E+06	-5.63E+01	9.22E+06
3.54E+00	3.28E+07	4	4.40E+00	1.21E+01	1.33E-01	2.01E+00	1.88E+00	-2.37E+06	-1.10E+02	9.26E+06
3.67E+00	3.28E+07	4	4.40E+00	1.21E+01	1.33E-01	2.01E+00	1.88E+00	-2.36E+06	-1.09E+02	9.30E+06
3.79E+00	3.28E+07	4	4.40E+00	1.21E+01	1.33E-01	2.01E+00	1.88E+00	-2.34E+06	-1.07E+02	9.35E+06
3.91E+00	3.28E+07	4	4.40E+00	1.21E+01	1.33E-01	2.01E+00	1.88E+00	-2.32E+06	-1.06E+02	9.40E+06

Table C3. Model output from monthly model inputs for Lake Perris, California, methyl *tert*-butyl ether

Time	C(Epil) (µg/L)	C(Hypol) (µg/L)	VolEpi (m ³)	VolHyp (m ³)	U (m/s)	Tw (°C)	kL (m/d)	MLD	dMLD/dt	Input	Cs (µg/L)
0	4.80E+00	4.80E+00	1.39E+08	6.76E+06	2.06	15.66	0.1823	23.7	-2.76E-01	2.72E+01	1.47E+00
1	4.78E+00	4.80E+00	1.38E+08	7.27E+06	2.06	15.59	0.1819	23.4	-2.76E-01	2.77E+01	1.47E+00
2	4.76E+00	4.80E+00	1.37E+08	7.80E+06	2.06	15.52	0.1816	23.1	-2.76E-01	2.81E+01	1.48E+00
3	4.73E+00	4.79E+00	1.36E+08	8.33E+06	2.06	15.45	0.1812	22.8	-2.76E-01	2.86E+01	1.49E+00
4	4.71E+00	4.79E+00	1.35E+08	8.88E+06	2.06	15.37	0.1809	22.6	-2.76E-01	2.91E+01	1.50E+00
5	4.69E+00	4.78E+00	1.34E+08	9.43E+06	2.06	15.3	0.1805	22.3	-2.76E-01	2.95E+01	1.51E+00
6	4.67E+00	4.78E+00	1.33E+08	1.00E+07	2.06	15.23	0.1802	22	-2.76E-01	3.00E+01	1.51E+00
7	4.65E+00	4.77E+00	1.31E+08	1.06E+07	2.06	15.16	0.1798	21.7	-2.76E-01	3.05E+01	1.52E+00
8	4.63E+00	4.77E+00	1.30E+08	1.12E+07	2.06	15.09	0.1795	21.5	-2.76E-01	3.10E+01	1.53E+00
9	4.61E+00	4.76E+00	1.29E+08	1.18E+07	2.06	15.01	0.1791	21.2	-2.76E-01	3.14E+01	1.54E+00
10	4.60E+00	4.75E+00	1.28E+08	1.24E+07	2.07	14.94	0.1788	20.9	-2.76E-01	3.19E+01	1.55E+00
151	2.54E+01	4.75E+00	4.33E+07	1.08E+08	2.08	22.79	0.2362	5	2.96E-02	7.29E+02	2.29E-01
152	2.54E+01	4.75E+00	4.35E+07	1.07E+08	2.08	22.89	0.2364	5.1	2.96E-02	7.31E+02	2.27E-01
153	2.54E+01	4.75E+00	4.37E+07	1.07E+08	2.08	22.99	0.2367	5.1	2.96E-02	7.34E+02	2.24E-01
154	2.54E+01	4.75E+00	4.39E+07	1.06E+08	2.07	23.1	0.2369	5.1	2.96E-02	7.36E+02	2.22E-01
155	2.54E+01	4.75E+00	4.41E+07	1.06E+08	2.07	23.2	0.2372	5.2	2.96E-02	7.38E+02	2.19E-01
156	2.54E+01	4.75E+00	4.43E+07	1.05E+08	2.07	23.3	0.2374	5.2	2.96E-02	7.41E+02	2.17E-01
157	2.54E+01	4.75E+00	4.45E+07	1.05E+08	2.07	23.4	0.2377	5.2	2.96E-02	7.43E+02	2.14E-01
158	2.54E+01	4.75E+00	4.47E+07	1.04E+08	2.06	23.5	0.2379	5.2	2.96E-02	7.46E+02	2.12E-01
159	2.54E+01	4.75E+00	4.49E+07	1.04E+08	2.06	23.61	0.2382	5.3	2.96E-02	7.48E+02	2.10E-01
160	2.55E+01	4.75E+00	4.51E+07	1.03E+08	2.06	23.71	0.2384	5.3	2.96E-02	7.50E+02	2.07E-01
161	2.55E+01	4.75E+00	4.53E+07	1.03E+08	2.06	23.81	0.2386	5.3	2.96E-02	7.53E+02	2.05E-01
162	2.55E+01	4.75E+00	4.55E+07	1.02E+08	2.05	23.91	0.2389	5.4	2.96E-02	7.55E+02	2.03E-01
163	2.55E+01	4.75E+00	4.57E+07	1.02E+08	2.05	24.01	0.2391	5.4	2.96E-02	7.57E+02	2.01E-01
164	2.55E+01	4.75E+00	4.59E+07	1.01E+08	2.05	24.12	0.2393	5.4	2.96E-02	7.60E+02	1.98E-01
165	2.55E+01	4.75E+00	4.61E+07	1.01E+08	2.04	24.22	0.2395	5.4	2.96E-02	7.62E+02	1.96E-01
166	2.56E+01	4.75E+00	4.63E+07	1.00E+08	2.04	24.32	0.2398	5.5	2.96E-02	7.64E+02	1.94E-01
167	2.56E+01	4.75E+00	4.66E+07	9.98E+07	2.04	24.4	0.2399	5.5	5.99E-02	7.68E+02	1.92E-01
168	2.56E+01	4.75E+00	4.71E+07	9.92E+07	2.04	24.44	0.2398	5.6	7.23E-02	7.73E+02	1.92E-01
169	2.56E+01	4.75E+00	4.77E+07	9.86E+07	2.04	24.47	0.2397	5.7	7.23E-02	7.78E+02	1.91E-01
170	2.56E+01	4.75E+00	4.82E+07	9.81E+07	2.03	24.49	0.2396	5.7	7.23E-02	7.84E+02	1.91E-01
171	2.56E+01	4.75E+00	4.88E+07	9.75E+07	2.03	24.52	0.2395	5.8	7.23E-02	7.89E+02	1.90E-01
172	2.56E+01	4.75E+00	4.93E+07	9.70E+07	2.03	24.55	0.2394	5.9	7.23E-02	7.94E+02	1.90E-01
173	2.57E+01	4.75E+00	4.99E+07	9.64E+07	2.03	24.58	0.2393	5.9	7.23E-02	8.00E+02	1.89E-01
174	2.57E+01	4.75E+00	5.05E+07	9.58E+07	2.03	24.61	0.2393	6	7.23E-02	8.05E+02	1.89E-01
175	2.57E+01	4.75E+00	5.10E+07	9.53E+07	2.03	24.64	0.2392	6.1	7.23E-02	8.11E+02	1.88E-01

Cair	Evap (mm/d)	Case	Inheight (m)	Outheight (m)	Inflow (m ³ /s)	Outflow (m ³ /s)	lexchange	Makeup	Makeup_ mass	Lake area (m ²)
4.90E+00	2.27E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	5.09E+05	-5.70E+05	-4.23E+01	9.39E+06
4.89E+00	2.26E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	5.19E+05	-5.70E+05	-3.09E+01	9.40E+06
4.88E+00	2.25E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	5.30E+05	-5.69E+05	-3.07E+01	9.41E+06
4.88E+00	2.25E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	5.41E+05	-5.68E+05	-3.05E+01	9.42E+06
4.87E+00	2.24E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	5.52E+05	-5.68E+05	-3.03E+01	9.43E+06
4.86E+00	2.23E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	5.63E+05	-5.67E+05	-3.02E+01	9.45E+06
4.86E+00	2.23E+07	3	4.40E+00	1.21E+01	0.00E+00	0.00E+00	5.74E+05	-5.66E+05	-3.00E+01	9.46E+06
4.85E+00	2.22E+07	3	4.40E+00	1.21E+01	0.00E+00	0.00E+00	5.86E+05	-5.65E+05	-2.98E+01	9.47E+06
4.84E+00	2.21E+07	3	4.40E+00	1.21E+01	0.00E+00	0.00E+00	5.97E+05	-5.65E+05	-2.97E+01	9.48E+06
4.84E+00	2.21E+07	3	4.40E+00	1.21E+01	0.00E+00	0.00E+00	6.08E+05	-5.64E+05	-2.95E+01	9.49E+06
4.83E+00	2.20E+07	3	4.40E+00	1.21E+01	0.00E+00	0.00E+00	6.20E+05	-5.63E+05	-2.94E+01	9.50E+06
1.45E+00	3.50E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.02E+05	-2.65E+05	-7.64E+01	9.29E+06
1.45E+00	3.52E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.01E+05	-2.64E+05	-7.62E+01	9.29E+06
1.45E+00	3.54E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.00E+05	-2.64E+05	-7.61E+01	9.30E+06
1.44E+00	3.56E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.00E+05	-2.64E+05	-7.60E+01	9.31E+06
1.44E+00	3.58E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-4.99E+05	-2.63E+05	-7.59E+01	9.31E+06
1.44E+00	3.60E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-4.98E+05	-2.63E+05	-7.57E+01	9.32E+06
1.43E+00	3.62E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-4.97E+05	-2.62E+05	-7.56E+01	9.32E+06
1.43E+00	3.64E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-4.96E+05	-2.62E+05	-7.56E+01	9.33E+06
1.43E+00	3.66E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-4.95E+05	-2.62E+05	-7.55E+01	9.34E+06
1.42E+00	3.68E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-4.94E+05	-2.61E+05	-7.54E+01	9.34E+06
1.42E+00	3.71E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-4.93E+05	-2.61E+05	-7.53E+01	9.35E+06
1.42E+00	3.73E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-4.93E+05	-2.60E+05	-7.52E+01	9.35E+06
1.41E+00	3.75E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-4.92E+05	-2.60E+05	-7.52E+01	9.36E+06
1.41E+00	3.77E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-4.91E+05	-2.60E+05	-7.51E+01	9.36E+06
1.41E+00	3.79E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-4.90E+05	-2.59E+05	-7.51E+01	9.37E+06
1.40E+00	3.82E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-4.89E+05	-2.59E+05	-7.50E+01	9.38E+06
1.40E+00	3.83E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.43E+05	-4.82E+04	-1.40E+01	9.38E+06
1.40E+00	3.84E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.64E+05	3.84E+04	8.35E-02	9.38E+06
1.40E+00	3.85E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.63E+05	3.85E+04	8.34E-02	9.38E+06
1.40E+00	3.85E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.62E+05	3.85E+04	8.33E-02	9.38E+06
1.40E+00	3.86E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.61E+05	3.86E+04	8.32E-02	9.38E+06
1.40E+00	3.86E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.60E+05	3.86E+04	8.31E-02	9.38E+06
1.40E+00	3.87E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.58E+05	3.87E+04	8.30E-02	9.38E+06
1.40E+00	3.87E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.57E+05	3.87E+04	8.29E-02	9.38E+06
1.40E+00	3.88E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.56E+05	3.88E+04	8.28E-02	9.38E+06

Table C3. Model output from monthly model inputs for Lake Perris, California, methyl *tert*-butyl ether—Continued

Time	C(Epi) (µg/L)	C(Hypol) (µg/L)	VolEpi (m ³)	VolHyp (m ³)	U (m/s)	Tw (°C)	kL (m/d)	MLD	dMLD/dt	Input	Cs (µg/L)
176	2.58E+01	4.75E+00	5.16E+07	9.47E+07	2.02	24.67	0.2391	6.2	7.23E-02	8.16E+02	1.88E-01
177	2.58E+01	4.75E+00	5.21E+07	9.42E+07	2.02	24.7	0.239	6.2	7.23E-02	8.22E+02	1.87E-01
178	2.59E+01	4.75E+00	5.27E+07	9.36E+07	2.02	24.73	0.2389	6.3	7.23E-02	8.27E+02	1.87E-01
179	2.60E+01	4.75E+00	5.32E+07	9.31E+07	2.02	24.76	0.2388	6.4	7.23E-02	8.32E+02	1.86E-01
180	2.61E+01	4.75E+00	5.38E+07	9.25E+07	2.02	24.79	0.2387	6.5	7.23E-02	8.38E+02	1.86E-01
181	2.61E+01	4.75E+00	5.43E+07	9.20E+07	2.02	24.82	0.2386	6.5	7.23E-02	8.43E+02	1.85E-01
182	2.62E+01	4.75E+00	5.49E+07	9.14E+07	2.02	24.85	0.2385	6.6	7.23E-02	8.49E+02	1.85E-01
183	2.63E+01	4.75E+00	5.54E+07	9.09E+07	2.01	24.88	0.2384	6.7	7.23E-02	8.54E+02	1.84E-01
184	2.64E+01	4.75E+00	5.60E+07	9.03E+07	2.01	24.91	0.2383	6.7	7.23E-02	8.59E+02	1.84E-01
185	2.65E+01	4.75E+00	5.65E+07	8.98E+07	2.01	24.94	0.2382	6.8	7.23E-02	8.65E+02	1.84E-01
186	2.66E+01	4.75E+00	5.71E+07	8.92E+07	2.01	24.97	0.2381	6.9	7.23E-02	8.70E+02	1.83E-01
187	2.67E+01	4.75E+00	5.76E+07	8.87E+07	2.01	25	0.238	7	7.23E-02	8.76E+02	1.83E-01
188	2.68E+01	4.75E+00	5.81E+07	8.82E+07	2.01	25.03	0.2379	7	7.23E-02	8.81E+02	1.82E-01
189	2.69E+01	4.75E+00	5.87E+07	8.76E+07	2	25.06	0.2378	7.1	7.23E-02	8.86E+02	1.82E-01
190	2.70E+01	4.75E+00	5.92E+07	8.71E+07	2	25.09	0.2377	7.2	7.23E-02	8.92E+02	1.81E-01
191	2.72E+01	4.75E+00	5.98E+07	8.65E+07	2	25.12	0.2376	7.3	7.23E-02	8.97E+02	1.81E-01
192	2.73E+01	4.75E+00	6.03E+07	8.60E+07	2	25.15	0.2375	7.3	7.23E-02	9.03E+02	1.80E-01
193	2.74E+01	4.75E+00	6.08E+07	8.55E+07	2	25.18	0.2374	7.4	7.23E-02	9.08E+02	1.80E-01
194	2.75E+01	4.75E+00	6.14E+07	8.49E+07	2	25.21	0.2373	7.5	7.23E-02	9.14E+02	1.79E-01
195	2.76E+01	4.75E+00	6.19E+07	8.44E+07	1.99	25.23	0.2372	7.5	7.23E-02	9.19E+02	1.79E-01
196	2.78E+01	4.75E+00	6.24E+07	8.39E+07	1.99	25.26	0.2371	7.6	7.23E-02	9.24E+02	1.78E-01
197	2.79E+01	4.75E+00	6.29E+07	8.34E+07	1.99	25.29	0.2369	7.7	5.79E-02	9.29E+02	1.78E-01
198	2.81E+01	4.75E+00	6.32E+07	8.31E+07	1.99	25.31	0.2368	7.7	2.30E-02	9.32E+02	1.78E-01
199	2.83E+01	4.75E+00	6.34E+07	8.29E+07	1.99	25.32	0.2365	7.7	2.30E-02	9.33E+02	1.78E-01
200	2.86E+01	4.75E+00	6.35E+07	8.28E+07	1.99	25.34	0.2363	7.8	2.30E-02	9.34E+02	1.77E-01
201	2.88E+01	4.75E+00	6.37E+07	8.26E+07	1.98	25.35	0.2361	7.8	2.30E-02	9.35E+02	1.77E-01
202	2.90E+01	4.75E+00	6.39E+07	8.24E+07	1.98	25.36	0.2359	7.8	2.30E-02	9.36E+02	1.77E-01
203	2.93E+01	4.75E+00	6.40E+07	8.23E+07	1.98	25.38	0.2356	7.8	2.30E-02	9.38E+02	1.77E-01
204	2.95E+01	4.75E+00	6.42E+07	8.21E+07	1.98	25.39	0.2354	7.9	2.30E-02	9.39E+02	1.77E-01
205	2.97E+01	4.75E+00	6.44E+07	8.19E+07	1.98	25.4	0.2352	7.9	2.30E-02	9.40E+02	1.76E-01
206	2.99E+01	4.75E+00	6.45E+07	8.18E+07	1.98	25.42	0.235	7.9	2.30E-02	9.41E+02	1.76E-01
207	3.01E+01	4.75E+00	6.47E+07	8.16E+07	1.97	25.43	0.2347	7.9	2.30E-02	9.42E+02	1.76E-01
208	3.03E+01	4.75E+00	6.49E+07	8.14E+07	1.97	25.44	0.2345	7.9	2.30E-02	9.43E+02	1.76E-01
209	3.05E+01	4.75E+00	6.50E+07	8.13E+07	1.97	25.46	0.2343	8	2.30E-02	9.45E+02	1.76E-01
210	3.07E+01	4.75E+00	6.52E+07	8.11E+07	1.97	25.47	0.234	8	2.30E-02	9.46E+02	1.75E-01
211	3.09E+01	4.75E+00	6.54E+07	8.09E+07	1.97	25.48	0.2338	8	2.30E-02	9.47E+02	1.75E-01

Cair	Evap (mm/d)	Case	Inheight (m)	Outheight (m)	Inflow (m ³ /s)	Outflow (m ³ /s)	lexchange	Makeup	Makeup_ mass	Lake area (m ²)
1.40E+00	3.88E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.55E+05	3.88E+04	8.27E-02	9.38E+06
1.40E+00	3.89E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.54E+05	3.89E+04	8.27E-02	9.38E+06
1.40E+00	3.90E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.53E+05	3.90E+04	8.26E-02	9.38E+06
1.40E+00	3.90E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.52E+05	3.90E+04	8.25E-02	9.38E+06
1.40E+00	3.91E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.50E+05	3.91E+04	8.24E-02	9.38E+06
1.40E+00	3.91E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.49E+05	3.91E+04	8.23E-02	9.38E+06
1.40E+00	3.92E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.48E+05	3.92E+04	8.22E-02	9.38E+06
1.40E+00	3.92E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.47E+05	3.92E+04	8.21E-02	9.38E+06
1.40E+00	3.93E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.46E+05	3.93E+04	8.20E-02	9.38E+06
1.40E+00	3.93E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.45E+05	3.93E+04	8.19E-02	9.38E+06
1.40E+00	3.94E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.44E+05	3.94E+04	8.18E-02	9.38E+06
1.40E+00	3.95E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.42E+05	3.95E+04	8.17E-02	9.38E+06
1.40E+00	3.95E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.41E+05	3.95E+04	8.16E-02	9.38E+06
1.40E+00	3.96E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.40E+05	3.96E+04	8.15E-02	9.38E+06
1.40E+00	3.96E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.39E+05	3.96E+04	8.15E-02	9.38E+06
1.40E+00	3.97E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.38E+05	3.97E+04	8.14E-02	9.38E+06
1.40E+00	3.97E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.37E+05	3.97E+04	8.13E-02	9.38E+06
1.40E+00	3.98E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.35E+05	3.98E+04	8.12E-02	9.38E+06
1.40E+00	3.99E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.33E+05	3.99E+04	8.11E-02	9.38E+06
1.40E+00	3.99E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.32E+05	3.99E+04	8.10E-02	9.38E+06
1.40E+00	4.00E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.30E+05	4.00E+04	8.09E-02	9.38E+06
1.40E+00	4.00E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-4.23E+05	4.00E+04	8.08E-02	9.38E+06
1.40E+00	4.00E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.68E+05	4.00E+04	8.07E-02	9.38E+06
1.40E+00	4.01E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.68E+05	4.01E+04	8.07E-02	9.38E+06
1.40E+00	4.01E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.67E+05	4.01E+04	8.06E-02	9.38E+06
1.40E+00	4.01E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.67E+05	4.01E+04	8.05E-02	9.38E+06
1.40E+00	4.01E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.67E+05	4.01E+04	8.05E-02	9.38E+06
1.40E+00	4.01E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.67E+05	4.01E+04	8.04E-02	9.38E+06
1.40E+00	4.01E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.67E+05	4.01E+04	8.03E-02	9.38E+06
1.40E+00	4.01E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.67E+05	4.01E+04	8.03E-02	9.38E+06
1.40E+00	4.01E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.66E+05	4.01E+04	8.02E-02	9.38E+06
1.40E+00	4.01E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.66E+05	4.01E+04	8.01E-02	9.38E+06
1.40E+00	4.02E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.66E+05	4.02E+04	8.00E-02	9.38E+06
1.40E+00	4.02E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.66E+05	4.02E+04	8.00E-02	9.38E+06
1.40E+00	4.02E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.66E+05	4.02E+04	7.99E-02	9.38E+06
1.40E+00	4.02E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.66E+05	4.02E+04	7.98E-02	9.38E+06

Table C3. Model output from monthly model inputs for Lake Perris, California, methyl *tert*-butyl ether—Continued

Time	C(Epi) ($\mu\text{g/L}$)	C(Hypol) ($\mu\text{g/L}$)	VolEpi (m^3)	VolHyp (m^3)	U (m/s)	Tw ($^{\circ}\text{C}$)	kL (m/d)	MLD	dMLD/dt	Input	Cs ($\mu\text{g/L}$)
212	3.10E+01	4.75E+00	6.55E+07	8.08E+07	1.97	25.49	0.2336	8	2.30E-02	9.48E+02	1.75E-01
213	3.12E+01	4.75E+00	6.57E+07	8.06E+07	1.96	25.51	0.2334	8.1	2.30E-02	9.49E+02	1.75E-01
214	3.14E+01	4.75E+00	6.59E+07	8.04E+07	1.96	25.52	0.2331	8.1	2.30E-02	9.50E+02	1.75E-01
215	3.16E+01	4.75E+00	6.60E+07	8.03E+07	1.96	25.53	0.2329	8.1	2.30E-02	9.52E+02	1.74E-01
216	3.17E+01	4.75E+00	6.62E+07	8.01E+07	1.96	25.55	0.2327	8.1	2.30E-02	9.53E+02	1.74E-01
217	3.19E+01	4.75E+00	6.64E+07	7.99E+07	1.96	25.56	0.2325	8.2	2.30E-02	9.54E+02	1.74E-01
218	3.20E+01	4.75E+00	6.65E+07	7.98E+07	1.96	25.57	0.2322	8.2	2.30E-02	9.55E+02	1.74E-01
219	3.22E+01	4.75E+00	6.67E+07	7.96E+07	1.95	25.59	0.232	8.2	2.30E-02	9.56E+02	1.74E-01
220	3.23E+01	4.75E+00	6.69E+07	7.94E+07	1.95	25.6	0.2318	8.2	2.30E-02	9.57E+02	1.73E-01
221	3.25E+01	4.75E+00	6.70E+07	7.93E+07	1.95	25.61	0.2316	8.2	2.30E-02	9.59E+02	1.73E-01
222	3.26E+01	4.75E+00	6.72E+07	7.91E+07	1.95	25.63	0.2313	8.3	2.30E-02	9.60E+02	1.73E-01
223	3.28E+01	4.75E+00	6.74E+07	7.90E+07	1.95	25.64	0.2311	8.3	2.30E-02	9.61E+02	1.73E-01
224	3.29E+01	4.75E+00	6.75E+07	7.88E+07	1.95	25.65	0.2309	8.3	2.30E-02	9.62E+02	1.73E-01
225	3.31E+01	4.75E+00	6.77E+07	7.86E+07	1.94	25.67	0.2306	8.3	2.30E-02	9.63E+02	1.72E-01
226	3.32E+01	4.75E+00	6.78E+07	7.85E+07	1.94	25.68	0.2304	8.4	2.30E-02	9.64E+02	1.72E-01
227	3.33E+01	4.75E+00	6.80E+07	7.83E+07	1.94	25.69	0.2302	8.4	2.30E-02	9.66E+02	1.72E-01
228	3.34E+01	4.75E+00	6.80E+07	7.84E+07	1.94	25.7	0.2298	8.4	-3.74E-02	9.55E+02	1.73E-01
229	3.36E+01	4.85E+00	6.77E+07	7.86E+07	1.94	25.71	0.2294	8.3	-4.60E-02	9.31E+02	1.75E-01
230	3.37E+01	4.96E+00	6.73E+07	7.90E+07	1.93	25.72	0.229	8.3	-4.60E-02	9.05E+02	1.76E-01
231	3.38E+01	5.08E+00	6.70E+07	7.93E+07	1.93	25.72	0.2285	8.2	-4.60E-02	8.78E+02	1.78E-01
232	3.39E+01	5.20E+00	6.67E+07	7.96E+07	1.93	25.73	0.228	8.2	-4.60E-02	8.52E+02	1.80E-01
233	3.39E+01	5.32E+00	6.63E+07	8.00E+07	1.93	25.74	0.2276	8.2	-4.60E-02	8.26E+02	1.82E-01
234	3.39E+01	5.44E+00	6.60E+07	8.03E+07	1.92	25.74	0.2271	8.1	-4.60E-02	8.00E+02	1.84E-01
235	3.39E+01	5.55E+00	6.57E+07	8.06E+07	1.92	25.75	0.2267	8.1	-4.60E-02	7.74E+02	1.86E-01
236	3.38E+01	5.67E+00	6.54E+07	8.09E+07	1.92	25.76	0.2262	8	-4.60E-02	7.48E+02	1.88E-01
237	3.37E+01	5.78E+00	6.50E+07	8.13E+07	1.92	25.76	0.2257	8	-4.60E-02	7.22E+02	1.90E-01
238	3.36E+01	5.90E+00	6.47E+07	8.16E+07	1.91	25.77	0.2253	7.9	-4.60E-02	6.96E+02	1.92E-01
239	3.34E+01	6.01E+00	6.44E+07	8.19E+07	1.91	25.77	0.2248	7.9	-4.60E-02	6.70E+02	1.94E-01
240	3.33E+01	6.12E+00	6.40E+07	8.23E+07	1.91	25.78	0.2244	7.8	-4.60E-02	6.44E+02	1.95E-01
241	3.30E+01	6.23E+00	6.37E+07	8.26E+07	1.9	25.79	0.2239	7.8	-4.60E-02	6.18E+02	1.97E-01
242	3.28E+01	6.34E+00	6.34E+07	8.29E+07	1.9	25.79	0.2235	7.7	-4.60E-02	5.92E+02	1.99E-01
243	3.25E+01	6.44E+00	6.30E+07	8.33E+07	1.9	25.8	0.223	7.7	-4.60E-02	5.66E+02	2.01E-01
244	3.22E+01	6.55E+00	6.27E+07	8.36E+07	1.9	25.81	0.2225	7.6	-4.60E-02	5.40E+02	2.03E-01
245	3.19E+01	6.65E+00	6.23E+07	8.40E+07	1.89	25.81	0.2221	7.6	-4.60E-02	5.14E+02	2.05E-01
246	3.16E+01	6.75E+00	6.20E+07	8.43E+07	1.89	25.82	0.2216	7.6	-4.60E-02	4.88E+02	2.07E-01
247	3.12E+01	6.85E+00	6.17E+07	8.46E+07	1.89	25.83	0.2212	7.5	-4.60E-02	4.62E+02	2.09E-01

Cair	Evap (mm/d)	Case	Inheight (m)	Outheight (m)	Inflow (m ³ /s)	Outflow (m ³ /s)	Iexchange	Makeup	Makeup_ mass	Lake area (m ²)
1.40E+00	4.02E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.65E+05	4.02E+04	7.98E-02	9.38E+06
1.40E+00	4.02E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.65E+05	4.02E+04	7.97E-02	9.38E+06
1.40E+00	4.02E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.65E+05	4.02E+04	7.96E-02	9.38E+06
1.40E+00	4.02E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.65E+05	4.02E+04	7.96E-02	9.38E+06
1.40E+00	4.02E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.65E+05	4.02E+04	7.95E-02	9.38E+06
1.40E+00	4.02E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.65E+05	4.02E+04	7.94E-02	9.38E+06
1.40E+00	4.03E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.64E+05	4.03E+04	7.94E-02	9.38E+06
1.40E+00	4.03E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.64E+05	4.03E+04	7.93E-02	9.38E+06
1.40E+00	4.03E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.64E+05	4.03E+04	7.92E-02	9.38E+06
1.40E+00	4.03E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.64E+05	4.03E+04	7.91E-02	9.38E+06
1.40E+00	4.03E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.64E+05	4.03E+04	7.91E-02	9.38E+06
1.40E+00	4.03E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.64E+05	4.03E+04	7.90E-02	9.38E+06
1.40E+00	4.03E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.63E+05	4.03E+04	7.89E-02	9.38E+06
1.40E+00	4.03E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.63E+05	4.03E+04	7.89E-02	9.38E+06
1.40E+00	4.03E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.63E+05	4.03E+04	7.88E-02	9.38E+06
1.40E+00	4.04E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.63E+05	4.04E+04	7.87E-02	9.38E+06
1.41E+00	4.03E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	2.65E+05	4.03E+04	7.91E-02	9.38E+06
1.42E+00	4.03E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	3.26E+05	4.03E+04	7.98E-02	9.38E+06
1.44E+00	4.03E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	3.27E+05	4.03E+04	8.07E-02	9.38E+06
1.46E+00	4.03E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	3.28E+05	4.03E+04	8.15E-02	9.38E+06
1.47E+00	4.03E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	3.29E+05	4.03E+04	8.24E-02	9.38E+06
1.49E+00	4.03E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	3.29E+05	4.03E+04	8.32E-02	9.38E+06
1.50E+00	4.02E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	3.30E+05	4.02E+04	8.40E-02	9.38E+06
1.52E+00	4.02E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	3.31E+05	4.02E+04	8.49E-02	9.38E+06
1.54E+00	4.02E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	3.31E+05	4.02E+04	8.57E-02	9.38E+06
1.55E+00	4.02E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	3.32E+05	4.02E+04	8.65E-02	9.38E+06
1.57E+00	4.02E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	3.33E+05	4.02E+04	8.73E-02	9.38E+06
1.59E+00	4.01E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	3.33E+05	4.01E+04	8.82E-02	9.38E+06
1.60E+00	4.01E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	3.34E+05	4.01E+04	8.90E-02	9.38E+06
1.62E+00	4.01E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	3.35E+05	4.01E+04	8.98E-02	9.38E+06
1.64E+00	4.01E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	3.35E+05	4.01E+04	9.06E-02	9.38E+06
1.65E+00	4.01E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	3.36E+05	4.01E+04	9.14E-02	9.38E+06
1.67E+00	4.00E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	3.37E+05	4.00E+04	9.22E-02	9.38E+06
1.69E+00	4.00E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	3.37E+05	4.00E+04	9.30E-02	9.38E+06
1.70E+00	4.00E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	3.38E+05	4.00E+04	9.39E-02	9.38E+06
1.72E+00	4.00E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	3.39E+05	4.00E+04	9.47E-02	9.38E+06

Table C3. Model output from monthly model inputs for Lake Perris, California, methyl *tert*-butyl ether—Continued

Time	C(Epil) (µg/L)	C(Hypol) (µg/L)	VolEpi (m ³)	VolHyp (m ³)	U (m/s)	Tw (°C)	kL (m/d)	MLD	dMLD/dt	Input	Cs (µg/L)
248	3.08E+01	6.94E+00	6.13E+07	8.50E+07	1.89	25.83	0.2207	7.5	-4.60E-02	4.36E+02	2.11E-01
249	3.04E+01	7.04E+00	6.10E+07	8.53E+07	1.88	25.84	0.2203	7.4	-4.60E-02	4.10E+02	2.12E-01
250	3.00E+01	7.13E+00	6.07E+07	8.57E+07	1.88	25.85	0.2198	7.4	-4.60E-02	3.84E+02	2.14E-01
251	2.95E+01	7.22E+00	6.03E+07	8.60E+07	1.88	25.85	0.2194	7.3	-4.60E-02	3.58E+02	2.16E-01
252	2.90E+01	7.31E+00	6.00E+07	8.63E+07	1.88	25.86	0.2189	7.3	-4.60E-02	3.32E+02	2.18E-01
253	2.85E+01	7.39E+00	5.96E+07	8.67E+07	1.87	25.87	0.2185	7.2	-4.60E-02	3.06E+02	2.20E-01
254	2.80E+01	7.47E+00	5.93E+07	8.70E+07	1.87	25.87	0.218	7.2	-4.60E-02	2.80E+02	2.22E-01
255	2.74E+01	7.55E+00	5.89E+07	8.74E+07	1.87	25.88	0.2175	7.1	-4.60E-02	2.54E+02	2.24E-01
256	2.68E+01	7.63E+00	5.86E+07	8.77E+07	1.87	25.89	0.2171	7.1	-4.60E-02	2.28E+02	2.26E-01
257	2.62E+01	7.70E+00	5.83E+07	8.80E+07	1.86	25.89	0.2167	7	-4.60E-02	2.02E+02	2.27E-01
258	2.56E+01	7.77E+00	5.85E+07	8.79E+07	1.86	25.86	0.2162	7.1	1.02E-01	1.81E+02	2.31E-01
259	2.48E+01	7.77E+00	5.99E+07	8.67E+07	1.86	25.75	0.2155	7.3	2.76E-01	1.72E+02	2.38E-01
260	2.36E+01	7.77E+00	6.20E+07	8.49E+07	1.86	25.59	0.2147	7.5	2.76E-01	1.70E+02	2.47E-01
261	2.26E+01	7.77E+00	6.41E+07	8.31E+07	1.86	25.43	0.2139	7.8	2.76E-01	1.67E+02	2.56E-01
262	2.17E+01	7.77E+00	6.62E+07	8.13E+07	1.86	25.28	0.2131	8.1	2.76E-01	1.65E+02	2.65E-01
263	2.08E+01	7.77E+00	6.82E+07	7.96E+07	1.86	25.12	0.2124	8.4	2.76E-01	1.62E+02	2.75E-01
264	2.00E+01	7.77E+00	7.02E+07	7.78E+07	1.87	24.96	0.2116	8.6	2.76E-01	1.59E+02	2.84E-01
265	1.93E+01	7.77E+00	7.22E+07	7.61E+07	1.87	24.8	0.2108	8.9	2.76E-01	1.57E+02	2.94E-01
266	1.87E+01	7.77E+00	7.42E+07	7.45E+07	1.87	24.64	0.2101	9.2	2.76E-01	1.54E+02	3.05E-01
267	1.81E+01	7.77E+00	7.62E+07	7.28E+07	1.87	24.49	0.2093	9.5	2.76E-01	1.52E+02	3.15E-01
268	1.75E+01	7.77E+00	7.81E+07	7.11E+07	1.87	24.33	0.2085	9.8	2.76E-01	1.49E+02	3.26E-01
269	1.70E+01	7.77E+00	8.01E+07	6.95E+07	1.87	24.17	0.2078	10	2.76E-01	1.47E+02	3.37E-01
270	1.65E+01	7.77E+00	8.20E+07	6.79E+07	1.87	24.01	0.207	10.3	2.76E-01	1.44E+02	3.48E-01
271	1.61E+01	7.77E+00	8.39E+07	6.63E+07	1.87	23.86	0.2062	10.6	2.76E-01	1.42E+02	3.59E-01
272	1.57E+01	7.77E+00	8.58E+07	6.47E+07	1.87	23.7	0.2054	10.9	2.76E-01	1.39E+02	3.71E-01
273	1.53E+01	7.77E+00	8.76E+07	6.31E+07	1.87	23.54	0.2047	11.1	2.76E-01	1.37E+02	3.83E-01
274	1.49E+01	7.77E+00	8.95E+07	6.16E+07	1.88	23.38	0.2039	11.4	2.76E-01	1.34E+02	3.95E-01
275	1.46E+01	7.77E+00	9.13E+07	6.01E+07	1.88	23.22	0.2031	11.7	2.76E-01	1.32E+02	4.08E-01
276	1.43E+01	7.77E+00	9.31E+07	5.86E+07	1.88	23.07	0.2023	12	2.76E-01	1.29E+02	4.21E-01
277	1.40E+01	7.77E+00	9.49E+07	5.71E+07	1.88	22.91	0.2016	12.2	2.76E-01	1.27E+02	4.34E-01
278	1.37E+01	7.77E+00	9.67E+07	5.56E+07	1.88	22.75	0.2008	12.5	2.76E-01	1.24E+02	4.47E-01
279	1.34E+01	7.77E+00	9.84E+07	5.42E+07	1.88	22.59	0.2	12.8	2.76E-01	1.21E+02	4.60E-01
280	1.32E+01	7.77E+00	1.00E+08	5.27E+07	1.88	22.43	0.1992	13.1	2.76E-01	1.19E+02	4.74E-01
281	1.30E+01	7.77E+00	1.02E+08	5.13E+07	1.88	22.28	0.1984	13.3	2.76E-01	1.16E+02	4.89E-01
282	1.27E+01	7.77E+00	1.04E+08	4.99E+07	1.88	22.12	0.1977	13.6	2.76E-01	1.14E+02	5.03E-01
283	1.25E+01	7.77E+00	1.05E+08	4.85E+07	1.88	21.96	0.1969	13.9	2.76E-01	1.11E+02	5.18E-01

Cair	Evap (mm/d)	Case	Inheight (m)	Outheight (m)	Inflow (m ³ /s)	Outflow (m ³ /s)	Iexchange	Makeup	Makeup_ mass	Lake area (m ²)
1.73E+00	4.00E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	3.39E+05	4.00E+04	9.55E-02	9.38E+06
1.75E+00	3.99E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	3.40E+05	3.99E+04	9.63E-02	9.38E+06
1.77E+00	3.99E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	3.41E+05	3.99E+04	9.71E-02	9.38E+06
1.78E+00	3.99E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	3.41E+05	3.99E+04	9.79E-02	9.38E+06
1.80E+00	3.99E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	3.42E+05	3.99E+04	9.87E-02	9.38E+06
1.82E+00	3.99E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	3.43E+05	3.99E+04	9.95E-02	9.38E+06
1.83E+00	3.99E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	3.43E+05	3.99E+04	1.00E-01	9.38E+06
1.85E+00	3.98E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	3.43E+05	3.98E+04	1.01E-01	9.38E+06
1.87E+00	3.98E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	3.44E+05	3.98E+04	1.02E-01	9.38E+06
1.88E+00	3.98E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	3.44E+05	3.98E+04	1.03E-01	9.38E+06
1.91E+00	3.97E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-6.47E+05	1.76E+05	4.60E-01	9.38E+06
1.94E+00	3.94E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.81E+06	3.36E+05	9.07E-01	9.38E+06
1.99E+00	3.90E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.79E+06	3.36E+05	9.40E-01	9.37E+06
2.04E+00	3.87E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.77E+06	3.36E+05	9.75E-01	9.36E+06
2.08E+00	3.83E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.76E+06	3.36E+05	1.01E+00	9.36E+06
2.13E+00	3.80E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.74E+06	3.36E+05	1.05E+00	9.35E+06
2.17E+00	3.76E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.72E+06	3.35E+05	1.08E+00	9.35E+06
2.22E+00	3.72E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.70E+06	3.35E+05	1.12E+00	9.34E+06
2.27E+00	3.69E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.68E+06	3.35E+05	1.16E+00	9.33E+06
2.31E+00	3.65E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.66E+06	3.35E+05	1.20E+00	9.33E+06
2.36E+00	3.62E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.64E+06	3.35E+05	1.24E+00	9.32E+06
2.40E+00	3.59E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.62E+06	3.35E+05	1.28E+00	9.32E+06
2.45E+00	3.55E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.61E+06	3.35E+05	1.32E+00	9.31E+06
2.50E+00	3.52E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.59E+06	3.34E+05	1.36E+00	9.31E+06
2.54E+00	3.49E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.57E+06	3.34E+05	1.41E+00	9.30E+06
2.59E+00	3.45E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.55E+06	3.34E+05	1.45E+00	9.29E+06
2.63E+00	3.42E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.53E+06	3.34E+05	1.50E+00	9.29E+06
2.68E+00	3.39E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.52E+06	3.34E+05	1.54E+00	9.28E+06
2.73E+00	3.35E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.50E+06	3.34E+05	1.59E+00	9.28E+06
2.77E+00	3.32E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.48E+06	3.34E+05	1.64E+00	9.27E+06
2.82E+00	3.29E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.46E+06	3.33E+05	1.69E+00	9.26E+06
2.86E+00	3.26E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.45E+06	3.33E+05	1.74E+00	9.26E+06
2.91E+00	3.23E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.43E+06	3.33E+05	1.79E+00	9.25E+06
2.96E+00	3.20E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.41E+06	3.33E+05	1.85E+00	9.25E+06
3.00E+00	3.17E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.40E+06	3.33E+05	1.90E+00	9.24E+06
3.05E+00	3.14E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.38E+06	3.33E+05	1.96E+00	9.24E+06

Table C3. Model output from monthly model inputs for Lake Perris, California, methyl *tert*-butyl ether—Continued

Time	C(Epil) (µg/L)	C(Hypol) (µg/L)	VolEpi (m ³)	VolHyp (m ³)	U (m/s)	Tw (°C)	kL (m/d)	MLD	dMLD/dt	Input	Cs (µg/L)
284	1.23E+01	7.77E+00	1.07E+08	4.71E+07	1.89	21.8	0.1961	14.2	2.76E-01	1.09E+02	5.33E-01
285	1.21E+01	7.77E+00	1.09E+08	4.58E+07	1.89	21.65	0.1953	14.4	2.76E-01	1.06E+02	5.49E-01
286	1.19E+01	7.77E+00	1.10E+08	4.45E+07	1.89	21.49	0.1945	14.7	2.76E-01	1.04E+02	5.65E-01
287	1.17E+01	7.77E+00	1.12E+08	4.31E+07	1.89	21.33	0.1937	15	2.76E-01	1.01E+02	5.81E-01
288	1.16E+01	7.77E+00	1.13E+08	4.18E+07	1.89	21.17	0.1931	15.3	2.82E-01	9.87E+01	5.97E-01
289	1.14E+01	7.77E+00	1.15E+08	4.01E+07	1.89	21.07	0.1929	15.6	4.11E-01	9.69E+01	6.13E-01
290	1.13E+01	7.77E+00	1.17E+08	3.81E+07	1.9	21	0.1932	16	4.11E-01	9.58E+01	6.28E-01
291	1.11E+01	7.77E+00	1.19E+08	3.60E+07	1.9	20.94	0.1936	16.4	4.11E-01	9.47E+01	6.43E-01
292	1.10E+01	7.77E+00	1.21E+08	3.41E+07	1.91	20.88	0.194	16.9	4.11E-01	9.35E+01	6.58E-01
293	1.08E+01	7.77E+00	1.23E+08	3.22E+07	1.91	20.82	0.1944	17.3	4.11E-01	9.24E+01	6.74E-01
294	1.07E+01	7.77E+00	1.25E+08	3.03E+07	1.92	20.75	0.1948	17.7	4.11E-01	9.13E+01	6.89E-01
295	1.06E+01	7.77E+00	1.27E+08	2.86E+07	1.92	20.69	0.1952	18.1	4.11E-01	9.02E+01	7.05E-01
296	1.05E+01	7.77E+00	1.29E+08	2.68E+07	1.93	20.63	0.1956	18.5	4.11E-01	8.90E+01	7.21E-01
297	1.04E+01	7.77E+00	1.30E+08	2.51E+07	1.93	20.57	0.196	18.9	4.11E-01	8.79E+01	7.37E-01
298	1.03E+01	7.77E+00	1.32E+08	2.35E+07	1.94	20.5	0.1964	19.3	4.11E-01	8.68E+01	7.53E-01
299	1.02E+01	7.77E+00	1.34E+08	2.20E+07	1.94	20.44	0.1968	19.7	4.11E-01	8.56E+01	7.69E-01
300	1.01E+01	7.77E+00	1.35E+08	2.04E+07	1.95	20.38	0.1971	20.1	4.11E-01	8.45E+01	7.86E-01
301	9.97E+00	7.77E+00	1.36E+08	1.90E+07	1.95	20.32	0.1975	20.6	4.11E-01	8.34E+01	8.03E-01
302	9.88E+00	7.77E+00	1.38E+08	1.75E+07	1.96	20.25	0.1979	21	4.11E-01	8.23E+01	8.19E-01
303	9.80E+00	7.77E+00	1.39E+08	1.62E+07	1.96	20.19	0.1983	21.4	4.11E-01	8.11E+01	8.36E-01
304	9.71E+00	7.77E+00	1.41E+08	1.49E+07	1.97	20.13	0.1987	21.8	4.11E-01	8.00E+01	8.54E-01
305	9.63E+00	7.77E+00	1.42E+08	1.36E+07	1.97	20.07	0.199	22.2	4.11E-01	7.89E+01	8.71E-01
306	9.55E+00	7.77E+00	1.43E+08	1.23E+07	1.98	20	0.1994	22.6	4.11E-01	7.77E+01	8.88E-01
307	9.47E+00	7.77E+00	1.44E+08	1.12E+07	1.98	19.94	0.1998	23	4.11E-01	7.66E+01	9.06E-01
308	9.40E+00	7.77E+00	1.45E+08	1.00E+07	1.99	19.88	0.2001	23.4	4.11E-01	7.55E+01	9.24E-01
309	9.32E+00	7.77E+00	1.47E+08	8.91E+06	1.99	19.82	0.2005	23.8	4.11E-01	7.44E+01	9.42E-01
310	9.25E+00	7.77E+00	1.48E+08	7.85E+06	2	19.75	0.2009	24.3	4.11E-01	7.32E+01	9.60E-01
311	9.18E+00	7.77E+00	1.49E+08	6.84E+06	2	19.69	0.2012	24.7	4.11E-01	7.21E+01	9.78E-01
312	9.11E+00	7.77E+00	1.50E+08	5.86E+06	2.01	19.63	0.2016	25.1	4.11E-01	7.10E+01	9.97E-01
313	9.05E+00	7.77E+00	1.51E+08	4.92E+06	2.01	19.57	0.2019	25.5	4.11E-01	6.98E+01	1.02E+00
314	8.98E+00	7.77E+00	1.51E+08	4.02E+06	2.02	19.5	0.2023	25.9	4.11E-01	6.87E+01	1.03E+00
315	8.92E+00	7.77E+00	1.52E+08	3.16E+06	2.02	19.44	0.2026	26.3	4.11E-01	6.76E+01	1.05E+00
316	8.86E+00	7.77E+00	1.53E+08	2.34E+06	2.03	19.38	0.203	26.7	4.11E-01	6.65E+01	1.07E+00
317	8.79E+00	7.77E+00	1.54E+08	1.55E+06	2.03	19.32	0.2033	27.1	4.11E-01	6.53E+01	1.09E+00
318	8.73E+00	7.77E+00	1.55E+08	8.03E+05	2.04	19.25	0.2036	27.5	4.11E-01	6.42E+01	1.11E+00
319	8.67E+00	7.77E+00	1.55E+08	3.02E+05	2.04	19.19	0.2036	27.8	1.56E-01	6.30E+01	1.13E+00

Cair	Evap (mm/d)	Case	Inheight (m)	Outheight (m)	Inflow (m ³ /s)	Outflow (m ³ /s)	Iexchange	Makeup	Makeup_ mass	Lake area (m ²)
3.09E+00	3.11E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.36E+06	3.33E+05	2.01E+00	9.23E+06
3.14E+00	3.08E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.34E+06	3.33E+05	2.07E+00	9.22E+06
3.19E+00	3.05E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.32E+06	3.33E+05	2.13E+00	9.22E+06
3.23E+00	3.02E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.30E+06	3.32E+05	2.19E+00	9.21E+06
3.28E+00	2.99E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.31E+06	3.20E+05	2.17E+00	9.21E+06
3.33E+00	2.97E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-2.11E+06	2.97E+04	2.07E-01	9.20E+06
3.40E+00	2.96E+07	3	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-2.05E+06	2.96E+04	2.11E-01	9.20E+06
3.46E+00	2.96E+07	3	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.99E+06	2.96E+04	2.16E-01	9.20E+06
3.52E+00	2.95E+07	3	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.93E+06	2.95E+04	2.20E-01	9.20E+06
3.58E+00	2.94E+07	3	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.87E+06	2.94E+04	2.25E-01	9.20E+06
3.65E+00	2.93E+07	3	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.81E+06	2.93E+04	2.29E-01	9.20E+06
3.71E+00	2.93E+07	3	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.76E+06	2.93E+04	2.34E-01	9.20E+06
3.77E+00	2.92E+07	3	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.70E+06	2.92E+04	2.39E-01	9.20E+06
3.83E+00	2.91E+07	3	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.65E+06	2.91E+04	2.43E-01	9.20E+06
3.90E+00	2.90E+07	3	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.60E+06	2.90E+04	2.48E-01	9.20E+06
3.96E+00	2.90E+07	3	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.54E+06	2.90E+04	2.53E-01	9.20E+06
4.02E+00	2.89E+07	3	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.49E+06	2.89E+04	2.58E-01	9.20E+06
4.08E+00	2.88E+07	3	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.44E+06	2.88E+04	2.62E-01	9.20E+06
4.15E+00	2.88E+07	3	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.39E+06	2.88E+04	2.67E-01	9.20E+06
4.21E+00	2.87E+07	3	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.35E+06	2.87E+04	2.72E-01	9.20E+06
4.27E+00	2.86E+07	3	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.30E+06	2.86E+04	2.77E-01	9.20E+06
4.33E+00	2.85E+07	3	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.25E+06	2.85E+04	2.82E-01	9.20E+06
4.40E+00	2.85E+07	3	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.21E+06	2.85E+04	2.87E-01	9.20E+06
4.46E+00	2.84E+07	3	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.17E+06	2.84E+04	2.92E-01	9.20E+06
4.52E+00	2.83E+07	3	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.12E+06	2.83E+04	2.97E-01	9.20E+06
4.58E+00	2.82E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.08E+06	2.82E+04	3.02E-01	9.20E+06
4.65E+00	2.82E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.04E+06	2.82E+04	3.07E-01	9.20E+06
4.71E+00	2.81E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-9.97E+05	2.81E+04	3.12E-01	9.20E+06
4.77E+00	2.80E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-9.57E+05	2.80E+04	3.17E-01	9.20E+06
4.83E+00	2.80E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-9.17E+05	2.80E+04	3.22E-01	9.20E+06
4.90E+00	2.79E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-8.79E+05	2.79E+04	3.27E-01	9.20E+06
4.96E+00	2.78E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-8.41E+05	2.78E+04	3.32E-01	9.20E+06
5.02E+00	2.77E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-8.05E+05	2.77E+04	3.38E-01	9.20E+06
5.08E+00	2.77E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-7.69E+05	2.77E+04	3.43E-01	9.20E+06
5.15E+00	2.76E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-7.34E+05	2.76E+04	3.48E-01	9.20E+06
5.19E+00	2.75E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-2.70E+05	2.75E+04	3.52E-01	9.20E+06

Table C3. Model output from monthly model inputs for Lake Perris, California, methyl *tert*-butyl ether—Continued

Time	C(Epi) (µg/L)	C(Hypol) (µg/L)	VolEpi (m ³)	VolHyp (m ³)	U (m/s)	Tw (°C)	kL (m/d)	MLD	dMLD/dt	Input	Cs (µg/L)
320	8.62E+00	7.77E+00	1.55E+08	1.64E+05	2.04	19.11	0.2033	27.9	3.29E-03	6.16E+01	1.14E+00
321	8.56E+00	7.77E+00	1.55E+08	1.58E+05	2.04	19.03	0.2028	27.9	3.29E-03	6.02E+01	1.14E+00
322	8.51E+00	7.77E+00	1.55E+08	1.53E+05	2.04	18.95	0.2023	27.9	3.29E-03	5.88E+01	1.15E+00
323	8.45E+00	7.77E+00	1.55E+08	1.47E+05	2.04	18.87	0.2017	27.9	3.29E-03	5.73E+01	1.16E+00
324	8.40E+00	7.77E+00	1.55E+08	1.41E+05	2.04	18.8	0.2012	27.9	3.29E-03	5.59E+01	1.16E+00
325	8.34E+00	7.77E+00	1.55E+08	1.36E+05	2.04	18.72	0.2006	27.9	3.29E-03	5.45E+01	1.17E+00
326	8.29E+00	7.77E+00	1.55E+08	1.30E+05	2.04	18.64	0.2001	27.9	3.29E-03	5.30E+01	1.18E+00
327	8.24E+00	7.77E+00	1.55E+08	1.25E+05	2.04	18.56	0.1996	27.9	3.29E-03	5.16E+01	1.18E+00
328	8.18E+00	7.77E+00	1.55E+08	1.19E+05	2.04	18.48	0.199	27.9	3.29E-03	5.02E+01	1.19E+00
329	8.13E+00	7.77E+00	1.55E+08	1.13E+05	2.04	18.4	0.1985	27.9	3.29E-03	4.88E+01	1.20E+00
330	8.07E+00	7.77E+00	1.55E+08	1.08E+05	2.04	18.32	0.1979	27.9	3.29E-03	4.73E+01	1.20E+00
331	8.02E+00	7.77E+00	1.55E+08	1.02E+05	2.04	18.24	0.	27.9	3.29E-03	4.59E+01	1.21E+00
332	7.97E+00	7.77E+00	1.55E+08	9.65E+04	2.04	18.16	0.1969	27.9	3.29E-03	4.45E+01	1.22E+00
333	7.91E+00	7.77E+00	1.55E+08	9.09E+04	2.04	18.09	0.1963	27.9	3.29E-03	4.30E+01	1.23E+00
334	7.86E+00	7.77E+00	1.55E+08	8.53E+04	2.04	18.01	0.1958	27.9	3.29E-03	4.16E+01	1.23E+00
335	7.81E+00	7.77E+00	1.55E+08	7.97E+04	2.04	17.93	0.1953	28	3.29E-03	4.02E+01	1.24E+00
336	7.76E+00	7.77E+00	1.55E+08	7.41E+04	2.04	17.85	0.1947	28	3.29E-03	3.88E+01	1.25E+00
337	7.70E+00	7.77E+00	1.55E+08	6.85E+04	2.04	17.77	0.1942	28	3.29E-03	3.73E+01	1.26E+00
338	7.65E+00	7.77E+00	1.55E+08	6.29E+04	2.04	17.69	0.1936	28	3.29E-03	3.59E+01	1.26E+00
339	7.60E+00	7.77E+00	1.55E+08	5.74E+04	2.04	17.61	0.1931	28	3.29E-03	3.45E+01	1.27E+00
340	7.55E+00	7.77E+00	1.55E+08	5.18E+04	2.04	17.53	0.1926	28	3.29E-03	3.30E+01	1.28E+00
341	7.49E+00	7.77E+00	1.55E+08	4.62E+04	2.04	17.45	0.192	28	3.29E-03	3.16E+01	1.28E+00
342	7.44E+00	7.77E+00	1.55E+08	4.06E+04	2.04	17.38	0.1915	28	3.29E-03	3.02E+01	1.29E+00
343	7.39E+00	7.77E+00	1.55E+08	3.50E+04	2.04	17.3	0.191	28	3.29E-03	2.88E+01	1.30E+00
344	7.34E+00	7.77E+00	1.55E+08	2.95E+04	2.04	17.22	0.1904	28	3.29E-03	2.73E+01	1.31E+00
345	7.28E+00	7.77E+00	1.55E+08	2.39E+04	2.04	17.14	0.1899	28	3.29E-03	2.59E+01	1.32E+00
346	7.23E+00	7.77E+00	1.55E+08	1.83E+04	2.04	17.06	0.1894	28	3.29E-03	2.45E+01	1.32E+00
347	7.18E+00	7.77E+00	1.55E+08	1.48E+04	2.04	16.98	0.1888	28	3.29E-03	2.30E+01	1.33E+00
348	7.13E+00	7.77E+00	1.55E+08	2.45E+04	2.04	16.9	0.1883	28	3.29E-03	2.16E+01	1.34E+00
349	7.07E+00	7.77E+00	1.55E+08	3.94E+04	2.04	16.82	0.1878	28	-5.49E-02	2.04E+01	1.35E+00
350	7.02E+00	7.36E+00	1.55E+08	2.56E+05	2.04	16.75	0.1874	27.8	-2.76E-01	2.01E+01	1.35E+00
351	6.97E+00	7.15E+00	1.54E+08	6.22E+05	2.04	16.68	0.187	27.5	-2.76E-01	2.06E+01	1.36E+00
352	6.92E+00	7.07E+00	1.53E+08	9.98E+05	2.04	16.6	0.1867	27.3	-2.76E-01	2.10E+01	1.37E+00
353	6.87E+00	7.02E+00	1.52E+08	1.38E+06	2.04	16.53	0.1864	27	-2.76E-01	2.15E+01	1.38E+00
354	6.83E+00	6.99E+00	1.51E+08	1.78E+06	2.04	16.46	0.186	26.7	-2.76E-01	2.20E+01	1.38E+00
355	6.78E+00	6.95E+00	1.50E+08	2.18E+06	2.05	16.39	0.1857	26.4	-2.76E-01	2.25E+01	1.39E+00

Cair	Evap (mm/d)	Case	Inheight (m)	Outheight (m)	Inflow (m ³ /s)	Outflow (m ³ /s)	Iexchange	Makeup	Makeup_ mass	Lake area (m ²)
5.19E+00	2.74E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.63E+03	2.74E+04	3.53E-01	9.20E+06
5.19E+00	2.73E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.62E+03	2.72E+04	3.54E-01	9.20E+06
5.18E+00	2.71E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.62E+03	2.71E+04	3.54E-01	9.20E+06
5.17E+00	2.70E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.62E+03	2.68E+04	3.55E-01	9.20E+06
5.17E+00	2.69E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.62E+03	2.68E+04	3.55E-01	9.20E+06
5.16E+00	2.67E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.61E+03	2.65E+04	3.55E-01	9.20E+06
5.15E+00	2.66E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.61E+03	2.65E+04	3.55E-01	9.20E+06
5.15E+00	2.65E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.61E+03	2.62E+04	3.56E-01	9.20E+06
5.14E+00	2.63E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.61E+03	2.62E+04	3.56E-01	9.20E+06
5.13E+00	2.62E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.60E+03	2.59E+04	3.57E-01	9.20E+06
5.13E+00	2.61E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.60E+03	2.59E+04	3.57E-01	9.20E+06
5.12E+00	2.60E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.60E+03	2.59E+04	3.57E-01	9.20E+06
5.11E+00	2.58E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.60E+03	2.56E+04	3.58E-01	9.20E+06
5.11E+00	2.57E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.60E+03	2.56E+04	3.58E-01	9.20E+06
5.10E+00	2.56E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.59E+03	2.53E+04	3.59E-01	9.20E+06
5.09E+00	2.55E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.59E+03	2.53E+04	3.59E-01	9.20E+06
5.09E+00	2.53E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.59E+03	2.53E+04	3.59E-01	9.20E+06
5.08E+00	2.52E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.59E+03	2.50E+04	3.60E-01	9.20E+06
5.07E+00	2.51E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.59E+03	2.50E+04	3.60E-01	9.20E+06
5.07E+00	2.50E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.58E+03	2.47E+04	3.60E-01	9.20E+06
5.06E+00	2.48E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.58E+03	2.47E+04	3.60E-01	9.20E+06
5.05E+00	2.47E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.58E+03	2.47E+04	3.60E-01	9.20E+06
5.05E+00	2.46E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.58E+03	2.44E+04	3.61E-01	9.20E+06
5.04E+00	2.45E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.58E+03	2.44E+04	3.61E-01	9.20E+06
5.03E+00	2.44E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.57E+03	2.41E+04	3.62E-01	9.20E+06
5.03E+00	2.42E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.57E+03	2.41E+04	3.62E-01	9.20E+06
5.02E+00	2.41E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.57E+03	2.41E+04	3.62E-01	9.20E+06
5.02E+00	2.40E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.56E+03	2.38E+04	3.63E-01	9.20E+06
5.01E+00	2.39E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.56E+03	2.38E+04	3.63E-01	9.20E+06
5.00E+00	2.38E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	6.99E+04	-1.02E+05	-8.21E+00	9.20E+06
5.00E+00	2.37E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	3.62E+05	-5.81E+05	-4.63E+01	9.21E+06
4.99E+00	2.36E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	3.71E+05	-5.80E+05	-4.59E+01	9.22E+06
4.98E+00	2.35E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	3.80E+05	-5.80E+05	-4.55E+01	9.23E+06
4.98E+00	2.35E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	3.90E+05	-5.79E+05	-4.51E+01	9.25E+06
4.97E+00	2.34E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	3.99E+05	-5.78E+05	-4.48E+01	9.26E+06
4.96E+00	2.33E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	4.08E+05	-5.77E+05	-4.44E+01	9.27E+06

Table C3. Model output from monthly model inputs for Lake Perris, California, methyl *tert*-butyl ether—Continued

Time	C(Epi) (µg/L)	C(Hypol) (µg/L)	VolEpi (m ³)	VolHyp (m ³)	U (m/s)	Tw (°C)	kL (m/d)	MLD	dMLD/dt	Input	Cs (µg/L)
356	6.73E+00	6.92E+00	1.49E+08	2.59E+06	2.05	16.31	0.1853	26.1	-2.76E-01	2.29E+01	1.40E+00
357	6.68E+00	6.89E+00	1.48E+08	3.02E+06	2.05	16.24	0.185	25.9	-2.76E-01	2.34E+01	1.41E+00
358	6.64E+00	6.86E+00	1.47E+08	3.45E+06	2.05	16.17	0.1847	25.6	-2.76E-01	2.39E+01	1.41E+00
359	6.59E+00	6.84E+00	1.46E+08	3.89E+06	2.05	16.1	0.1843	25.3	-2.76E-01	2.44E+01	1.42E+00
360	6.55E+00	6.81E+00	1.45E+08	4.34E+06	2.05	16.03	0.184	25	-2.76E-01	2.48E+01	1.43E+00
361	6.50E+00	6.78E+00	1.44E+08	4.81E+06	2.05	15.95	0.1836	24.8	-2.76E-01	2.53E+01	1.44E+00
362	6.46E+00	6.75E+00	1.43E+08	5.28E+06	2.05	15.88	0.1833	24.5	-2.76E-01	2.58E+01	1.44E+00
363	6.42E+00	6.73E+00	1.41E+08	5.76E+06	2.05	15.81	0.1829	24.2	-2.76E-01	2.62E+01	1.45E+00
364	6.37E+00	6.70E+00	1.40E+08	6.25E+06	2.05	15.74	0.1826	23.9	-2.76E-01	2.67E+01	1.46E+00
365	6.33E+00	6.68E+00	1.39E+08	6.76E+06	2.06	15.66	0.1823	23.7	-2.76E-01	2.72E+01	1.47E+00
366	6.29E+00	6.65E+00	1.38E+08	7.27E+06	2.06	15.59	0.1819	23.4	-2.76E-01	2.77E+01	1.47E+00
367	6.25E+00	6.63E+00	1.37E+08	7.80E+06	2.06	15.52	0.1816	23.1	-2.76E-01	2.81E+01	1.48E+00
368	6.21E+00	6.60E+00	1.36E+08	8.33E+06	2.06	15.45	0.1812	22.8	-2.76E-01	2.86E+01	1.49E+00
369	6.17E+00	6.58E+00	1.35E+08	8.88E+06	2.06	15.37	0.1809	22.6	-2.76E-01	2.91E+01	1.50E+00
370	6.13E+00	6.55E+00	1.34E+08	9.43E+06	2.06	15.3	0.1805	22.3	-2.76E-01	2.95E+01	1.51E+00
371	6.09E+00	6.53E+00	1.33E+08	1.00E+07	2.06	15.23	0.1802	22	-2.76E-01	3.00E+01	1.51E+00
372	6.06E+00	6.50E+00	1.31E+08	1.06E+07	2.06	15.16	0.1798	21.7	-2.76E-01	3.05E+01	1.52E+00
373	6.02E+00	6.48E+00	1.30E+08	1.12E+07	2.06	15.09	0.1795	21.5	-2.76E-01	3.10E+01	1.53E+00
374	5.98E+00	6.45E+00	1.29E+08	1.18E+07	2.06	15.01	0.1791	21.2	-2.76E-01	3.14E+01	1.54E+00
375	5.95E+00	6.43E+00	1.28E+08	1.24E+07	2.07	14.94	0.1788	20.9	-2.76E-01	3.19E+01	1.55E+00
376	5.91E+00	6.41E+00	1.27E+08	1.30E+07	2.07	14.87	0.1785	20.6	-2.76E-01	3.24E+01	1.55E+00
377	5.88E+00	6.38E+00	1.25E+08	1.37E+07	2.07	14.8	0.1781	20.3	-2.76E-01	3.28E+01	1.56E+00
378	5.84E+00	6.36E+00	1.24E+08	1.43E+07	2.07	14.72	0.1778	20.1	-2.76E-01	3.33E+01	1.57E+00
379	5.81E+00	6.33E+00	1.23E+08	1.50E+07	2.07	14.65	0.1775	19.8	-2.76E-01	3.38E+01	1.58E+00
380	5.78E+00	6.31E+00	1.21E+08	1.62E+07	2.07	14.6	0.1774	19.4	-2.76E-01	3.46E+01	1.58E+00
381	5.74E+00	6.26E+00	1.20E+08	1.82E+07	2.08	14.59	0.1778	18.8	-6.15E-01	3.59E+01	1.58E+00
382	5.70E+00	6.20E+00	1.18E+08	2.05E+07	2.08	14.58	0.1782	18.2	-6.15E-01	3.74E+01	1.57E+00
383	5.66E+00	6.14E+00	1.15E+08	2.30E+07	2.08	14.57	0.1787	17.6	-6.15E-01	3.88E+01	1.56E+00
384	5.62E+00	6.09E+00	1.13E+08	2.55E+07	2.09	14.56	0.1792	17	-6.15E-01	4.02E+01	1.56E+00
385	5.58E+00	6.05E+00	1.11E+08	2.82E+07	2.09	14.55	0.1796	16.3	-6.15E-01	4.16E+01	1.55E+00
386	5.54E+00	6.00E+00	1.08E+08	3.10E+07	2.09	14.54	0.1801	15.7	-6.15E-01	4.30E+01	1.55E+00
387	5.50E+00	5.96E+00	1.06E+08	3.40E+07	2.1	14.53	0.1806	15.1	-6.15E-01	4.44E+01	1.54E+00
388	5.46E+00	5.92E+00	1.03E+08	3.71E+07	2.1	14.52	0.181	14.5	-6.15E-01	4.58E+01	1.53E+00
389	5.42E+00	5.89E+00	9.97E+07	4.03E+07	2.11	14.51	0.1815	13.9	-6.15E-01	4.72E+01	1.53E+00
390	5.39E+00	5.85E+00	9.66E+07	4.38E+07	2.11	14.5	0.182	13.3	-6.15E-01	4.86E+01	1.52E+00
391	5.35E+00	5.81E+00	9.34E+07	4.73E+07	2.11	14.49	0.1824	12.7	-6.15E-01	5.00E+01	1.51E+00

Cair	Evap (mm/d)	Case	Inheight (m)	Outheight (m)	Inflow (m ³ /s)	Outflow (m ³ /s)	Iexchange	Makeup	Makeup_ mass	Lake area (m ²)
4.96E+00	2.33E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	4.18E+05	-5.77E+05	-4.40E+01	9.28E+06
4.95E+00	2.32E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	4.28E+05	-5.76E+05	-4.37E+01	9.29E+06
4.94E+00	2.31E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	4.37E+05	-5.75E+05	-4.33E+01	9.31E+06
4.94E+00	2.31E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	4.47E+05	-5.75E+05	-4.30E+01	9.32E+06
4.93E+00	2.30E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	4.57E+05	-5.74E+05	-4.26E+01	9.33E+06
4.92E+00	2.29E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	4.67E+05	-5.73E+05	-4.23E+01	9.34E+06
4.92E+00	2.29E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	4.77E+05	-5.72E+05	-4.19E+01	9.35E+06
4.91E+00	2.28E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	4.88E+05	-5.72E+05	-4.16E+01	9.36E+06
4.90E+00	2.27E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	4.98E+05	-5.71E+05	-4.13E+01	9.38E+06
4.90E+00	2.27E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	5.09E+05	-5.70E+05	-4.10E+01	9.39E+06
4.89E+00	2.26E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	5.19E+05	-5.70E+05	-4.07E+01	9.40E+06
4.88E+00	2.25E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	5.30E+05	-5.69E+05	-4.03E+01	9.41E+06
4.88E+00	2.25E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	5.41E+05	-5.68E+05	-4.00E+01	9.42E+06
4.87E+00	2.24E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	5.52E+05	-5.68E+05	-3.97E+01	9.43E+06
4.86E+00	2.23E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	5.63E+05	-5.67E+05	-3.94E+01	9.45E+06
4.86E+00	2.23E+07	3	4.40E+00	1.21E+01	0.00E+00	0.00E+00	5.74E+05	-5.66E+05	-3.91E+01	9.46E+06
4.85E+00	2.22E+07	3	4.40E+00	1.21E+01	0.00E+00	0.00E+00	5.86E+05	-5.65E+05	-3.88E+01	9.47E+06
4.84E+00	2.21E+07	3	4.40E+00	1.21E+01	0.00E+00	0.00E+00	5.97E+05	-5.65E+05	-3.86E+01	9.48E+06
4.84E+00	2.21E+07	3	4.40E+00	1.21E+01	0.00E+00	0.00E+00	6.08E+05	-5.64E+05	-3.83E+01	9.49E+06
4.83E+00	2.20E+07	3	4.40E+00	1.21E+01	0.00E+00	0.00E+00	6.20E+05	-5.63E+05	-3.80E+01	9.50E+06
4.82E+00	2.20E+07	3	4.40E+00	1.21E+01	0.00E+00	0.00E+00	6.32E+05	-5.63E+05	-3.77E+01	9.52E+06
4.82E+00	2.19E+07	3	4.40E+00	1.21E+01	0.00E+00	0.00E+00	6.44E+05	-5.62E+05	-3.75E+01	9.53E+06
4.81E+00	2.18E+07	3	4.40E+00	1.21E+01	0.00E+00	0.00E+00	6.56E+05	-5.61E+05	-3.72E+01	9.54E+06
4.80E+00	2.18E+07	3	4.40E+00	1.21E+01	0.00E+00	0.00E+00	6.68E+05	-5.61E+05	-3.69E+01	9.55E+06
4.79E+00	2.17E+07	3	4.40E+00	1.21E+01	0.00E+00	0.00E+00	1.83E+06	1.31E+05	2.35E+00	9.56E+06
4.77E+00	2.17E+07	3	4.40E+00	1.21E+01	0.00E+00	0.00E+00	2.23E+06	3.13E+05	5.60E+00	9.55E+06
4.75E+00	2.17E+07	3	4.40E+00	1.21E+01	0.00E+00	0.00E+00	2.36E+06	3.13E+05	5.58E+00	9.55E+06
4.72E+00	2.17E+07	3	4.40E+00	1.21E+01	0.00E+00	0.00E+00	2.49E+06	3.13E+05	5.56E+00	9.54E+06
4.70E+00	2.17E+07	3	4.40E+00	1.21E+01	0.00E+00	0.00E+00	2.62E+06	3.13E+05	5.54E+00	9.53E+06
4.68E+00	2.17E+07	3	4.40E+00	1.21E+01	0.00E+00	0.00E+00	2.75E+06	3.14E+05	5.52E+00	9.53E+06
4.66E+00	2.17E+07	3	4.40E+00	1.21E+01	0.00E+00	0.00E+00	2.89E+06	3.14E+05	5.50E+00	9.52E+06
4.63E+00	2.17E+07	3	4.40E+00	1.21E+01	0.00E+00	0.00E+00	3.03E+06	3.14E+05	5.48E+00	9.52E+06
4.61E+00	2.17E+07	3	4.40E+00	1.21E+01	0.00E+00	0.00E+00	3.18E+06	3.14E+05	5.47E+00	9.51E+06
4.59E+00	2.17E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	3.33E+06	3.14E+05	5.45E+00	9.50E+06
4.56E+00	2.17E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	3.48E+06	3.15E+05	5.43E+00	9.50E+06
4.54E+00	2.17E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	3.63E+06	3.15E+05	5.41E+00	9.49E+06

Table C3. Model output from monthly model inputs for Lake Perris, California, methyl *tert*-butyl ether—Continued

Time	C(Epi) (µg/L)	C(Hypol) (µg/L)	VolEpi (m ³)	VolHyp (m ³)	U (m/s)	Tw (°C)	kL (m/d)	MLD	dMLD/dt	Input	Cs (µg/L)
392	5.32E+00	5.78E+00	9.00E+07	5.10E+07	2.12	14.48	0.1829	12	-6.15E-01	5.15E+01	1.51E+00
393	5.28E+00	5.75E+00	8.64E+07	5.48E+07	2.12	14.47	0.1834	11.4	-6.15E-01	5.29E+01	1.50E+00
394	5.25E+00	5.72E+00	8.28E+07	5.87E+07	2.13	14.46	0.1839	10.8	-6.15E-01	5.43E+01	1.50E+00
395	5.21E+00	5.68E+00	7.90E+07	6.28E+07	2.13	14.45	0.1843	10.2	-6.15E-01	5.57E+01	1.49E+00
396	5.18E+00	5.65E+00	7.51E+07	6.70E+07	2.13	14.44	0.1848	9.6	-6.15E-01	5.71E+01	1.48E+00
397	5.15E+00	5.63E+00	7.11E+07	7.13E+07	2.14	14.43	0.1853	9	-6.15E-01	5.85E+01	1.48E+00
398	5.12E+00	5.60E+00	6.70E+07	7.57E+07	2.14	14.42	0.1857	8.4	-6.15E-01	5.99E+01	1.47E+00
399	5.08E+00	5.57E+00	6.27E+07	8.03E+07	2.15	14.41	0.1862	7.7	-6.15E-01	6.13E+01	1.46E+00
400	5.05E+00	5.54E+00	5.83E+07	8.50E+07	2.15	14.4	0.1867	7.1	-6.15E-01	6.27E+01	1.46E+00
401	5.02E+00	5.51E+00	5.38E+07	8.98E+07	2.15	14.39	0.1871	6.5	-6.15E-01	6.41E+01	1.45E+00
402	4.99E+00	5.49E+00	4.91E+07	9.48E+07	2.16	14.38	0.1876	5.9	-6.15E-01	6.56E+01	1.44E+00
403	4.96E+00	5.46E+00	4.44E+07	9.98E+07	2.16	14.37	0.1881	5.3	-6.15E-01	6.70E+01	1.44E+00
404	4.93E+00	5.44E+00	3.96E+07	1.05E+08	2.17	14.36	0.1886	4.7	-6.15E-01	6.84E+01	1.43E+00
405	4.90E+00	5.41E+00	3.47E+07	1.10E+08	2.17	14.35	0.189	4.1	-6.15E-01	6.98E+01	1.43E+00
406	4.87E+00	5.39E+00	2.97E+07	1.15E+08	2.17	14.34	0.1895	3.4	-6.15E-01	7.12E+01	1.42E+00
407	4.84E+00	5.37E+00	2.46E+07	1.21E+08	2.18	14.33	0.19	2.8	-6.15E-01	7.26E+01	1.41E+00
408	4.81E+00	5.34E+00	1.94E+07	1.26E+08	2.18	14.32	0.1904	2.2	-6.15E-01	7.40E+01	1.41E+00
409	4.79E+00	5.32E+00	1.41E+07	1.32E+08	2.19	14.31	0.1909	1.6	-6.15E-01	7.54E+01	1.40E+00
410	4.76E+00	5.30E+00	9.90E+06	1.36E+08	2.19	14.3	0.191	1.1	-3.50E-01	7.88E+01	1.39E+00
411	4.79E+00	5.28E+00	8.77E+06	1.38E+08	2.19	14.29	0.1909	1	-3.50E-01	8.72E+01	1.38E+00
412	4.92E+00	5.28E+00	9.59E+06	1.37E+08	2.18	14.28	0.1904	1.1	9.21E-02	9.88E+01	1.37E+00
413	5.10E+00	5.28E+00	1.04E+07	1.37E+08	2.18	14.26	0.1899	1.2	9.21E-02	1.10E+02	1.35E+00
414	5.32E+00	5.28E+00	1.12E+07	1.36E+08	2.18	14.25	0.1894	1.3	9.21E-02	1.22E+02	1.34E+00
415	5.55E+00	5.28E+00	1.21E+07	1.36E+08	2.17	14.24	0.1888	1.3	9.21E-02	1.34E+02	1.32E+00
416	5.80E+00	5.28E+00	1.29E+07	1.35E+08	2.17	14.22	0.1883	1.4	9.21E-02	1.45E+02	1.31E+00
417	6.07E+00	5.28E+00	1.37E+07	1.35E+08	2.17	14.21	0.1878	1.5	9.21E-02	1.57E+02	1.30E+00
418	6.34E+00	5.28E+00	1.45E+07	1.34E+08	2.16	14.2	0.1873	1.6	9.21E-02	1.69E+02	1.28E+00
419	6.62E+00	5.28E+00	1.53E+07	1.34E+08	2.16	14.18	0.1867	1.7	9.21E-02	1.80E+02	1.27E+00
420	6.90E+00	5.28E+00	1.61E+07	1.33E+08	2.16	14.17	0.1862	1.8	9.21E-02	1.92E+02	1.25E+00
421	7.19E+00	5.28E+00	1.70E+07	1.33E+08	2.15	14.16	0.1857	1.9	9.21E-02	2.03E+02	1.24E+00
422	7.48E+00	5.28E+00	1.78E+07	1.32E+08	2.15	14.14	0.1851	2	9.21E-02	2.15E+02	1.22E+00
423	7.77E+00	5.28E+00	1.86E+07	1.32E+08	2.15	14.13	0.1846	2.1	9.21E-02	2.27E+02	1.21E+00
424	8.07E+00	5.28E+00	1.94E+07	1.31E+08	2.14	14.12	0.1841	2.2	9.21E-02	2.38E+02	1.20E+00
425	8.37E+00	5.28E+00	2.02E+07	1.31E+08	2.14	14.1	0.1836	2.3	9.21E-02	2.50E+02	1.18E+00
426	8.67E+00	5.28E+00	2.10E+07	1.30E+08	2.14	14.09	0.1831	2.4	9.21E-02	2.62E+02	1.17E+00
427	8.97E+00	5.28E+00	2.18E+07	1.30E+08	2.13	14.08	0.1825	2.5	9.21E-02	2.73E+02	1.15E+00

Cair	Evap (mm/d)	Case	Inheight (m)	Outheight (m)	Inflow (m ³ /s)	Outflow (m ³ /s)	Iexchange	Makeup	Makeup_ mass	Lake area (m ²)
4.52E+00	2.17E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	3.75E+06	3.15E+05	5.39E+00	9.49E+06
4.49E+00	2.17E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	3.87E+06	3.15E+05	5.37E+00	9.48E+06
4.47E+00	2.17E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	4.00E+06	3.15E+05	5.35E+00	9.48E+06
4.45E+00	2.17E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	4.12E+06	3.16E+05	5.33E+00	9.47E+06
4.43E+00	2.17E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	4.25E+06	3.16E+05	5.31E+00	9.46E+06
4.40E+00	2.17E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	4.38E+06	3.16E+05	5.29E+00	9.46E+06
4.38E+00	2.17E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	4.51E+06	3.16E+05	5.27E+00	9.45E+06
4.36E+00	2.17E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	4.64E+06	3.16E+05	5.25E+00	9.45E+06
4.33E+00	2.17E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	4.78E+06	3.16E+05	5.23E+00	9.44E+06
4.31E+00	2.17E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	4.88E+06	3.17E+05	5.21E+00	9.43E+06
4.29E+00	2.17E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	4.97E+06	3.17E+05	5.19E+00	9.43E+06
4.26E+00	2.17E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	5.06E+06	3.17E+05	5.17E+00	9.42E+06
4.24E+00	2.17E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	5.16E+06	3.17E+05	5.15E+00	9.42E+06
4.22E+00	2.17E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	5.25E+06	3.17E+05	5.13E+00	9.41E+06
4.19E+00	2.17E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	5.34E+06	3.18E+05	5.11E+00	9.41E+06
4.17E+00	2.17E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	5.44E+06	3.18E+05	5.09E+00	9.40E+06
4.15E+00	2.17E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	5.54E+06	3.18E+05	5.07E+00	9.39E+06
4.13E+00	2.17E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	5.63E+06	3.18E+05	5.05E+00	9.39E+06
4.10E+00	2.17E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	3.37E+06	3.18E+05	5.03E+00	9.38E+06
4.06E+00	2.16E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.24E+05	3.19E+05	4.99E+00	9.38E+06
4.01E+00	2.16E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.23E+05	3.19E+05	4.94E+00	9.37E+06
3.97E+00	2.16E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.23E+05	3.19E+05	4.89E+00	9.36E+06
3.92E+00	2.15E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.22E+05	3.19E+05	4.84E+00	9.36E+06
3.88E+00	2.15E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.21E+05	3.19E+05	4.79E+00	9.35E+06
3.83E+00	2.14E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.20E+05	3.19E+05	4.74E+00	9.35E+06
3.78E+00	2.14E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.19E+05	3.19E+05	4.69E+00	9.34E+06
3.74E+00	2.13E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.18E+05	3.20E+05	4.64E+00	9.34E+06
3.69E+00	2.13E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.18E+05	3.20E+05	4.59E+00	9.33E+06
3.65E+00	2.12E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.17E+05	3.20E+05	4.55E+00	9.32E+06
3.60E+00	2.12E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.16E+05	3.20E+05	4.49E+00	9.32E+06
3.55E+00	2.11E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.15E+05	3.20E+05	4.45E+00	9.31E+06
3.51E+00	2.11E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.14E+05	3.20E+05	4.39E+00	9.31E+06
3.46E+00	2.10E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.14E+05	3.20E+05	4.34E+00	9.30E+06
3.42E+00	2.10E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.13E+05	3.21E+05	4.29E+00	9.29E+06
3.37E+00	2.09E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.12E+05	3.21E+05	4.24E+00	9.29E+06
3.32E+00	2.09E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.11E+05	3.21E+05	4.19E+00	9.28E+06

Table C3. Model output from monthly model inputs for Lake Perris, California, methyl *tert*-butyl ether—Continued

Time	C(Epi) (µg/L)	C(Hypol) (µg/L)	VolEpi (m ³)	VolHyp (m ³)	U (m/s)	Tw (°C)	kL (m/d)	MLD	dMLD/dt	Input	Cs (µg/L)
428	9.28E+00	5.28E+00	2.26E+07	1.29E+08	2.13	14.06	0.182	2.5	9.21E-02	2.85E+02	1.14E+00
429	9.58E+00	5.28E+00	2.34E+07	1.29E+08	2.13	14.05	0.1815	2.6	9.21E-02	2.96E+02	1.12E+00
430	9.89E+00	5.28E+00	2.43E+07	1.28E+08	2.12	14.04	0.181	2.7	9.21E-02	3.08E+02	1.11E+00
431	1.02E+01	5.28E+00	2.51E+07	1.28E+08	2.12	14.03	0.1805	2.8	9.21E-02	3.20E+02	1.09E+00
432	1.05E+01	5.28E+00	2.59E+07	1.27E+08	2.12	14.01	0.1799	2.9	9.21E-02	3.31E+02	1.08E+00
433	1.08E+01	5.28E+00	2.67E+07	1.27E+08	2.11	14	0.1794	3	9.21E-02	3.43E+02	1.06E+00
434	1.11E+01	5.28E+00	2.75E+07	1.26E+08	2.11	13.99	0.1789	3.1	9.21E-02	3.55E+02	1.05E+00
435	1.15E+01	5.28E+00	2.83E+07	1.25E+08	2.11	13.97	0.1784	3.2	9.21E-02	3.66E+02	1.03E+00
436	1.18E+01	5.28E+00	2.91E+07	1.25E+08	2.1	13.96	0.1779	3.3	9.21E-02	3.78E+02	1.02E+00
437	1.21E+01	5.28E+00	2.99E+07	1.24E+08	2.1	13.95	0.1774	3.4	9.21E-02	3.89E+02	1.00E+00
438	1.24E+01	5.28E+00	3.07E+07	1.24E+08	2.1	13.93	0.1768	3.5	9.21E-02	4.01E+02	9.90E-01
439	1.27E+01	5.28E+00	3.15E+07	1.23E+08	2.1	13.92	0.1763	3.6	9.21E-02	4.13E+02	9.75E-01
440	1.30E+01	5.28E+00	3.23E+07	1.23E+08	2.09	13.91	0.176	3.7	9.21E-02	4.24E+02	9.60E-01
441	1.34E+01	5.28E+00	3.29E+07	1.23E+08	2.09	13.93	0.1761	3.7	4.16E-02	4.32E+02	9.45E-01
442	1.38E+01	5.28E+00	3.32E+07	1.22E+08	2.09	13.98	0.1767	3.8	4.16E-02	4.35E+02	9.30E-01
443	1.42E+01	5.28E+00	3.36E+07	1.22E+08	2.1	14.03	0.1775	3.8	3.95E-02	4.38E+02	9.15E-01
444	1.46E+01	5.28E+00	3.39E+07	1.22E+08	2.1	14.08	0.1783	3.8	3.95E-02	4.41E+02	9.00E-01
445	1.50E+01	5.28E+00	3.42E+07	1.21E+08	2.1	14.13	0.1791	3.9	3.95E-02	4.44E+02	8.85E-01
446	1.54E+01	5.28E+00	3.46E+07	1.21E+08	2.11	14.19	0.1799	3.9	3.95E-02	4.48E+02	8.71E-01
447	1.57E+01	5.28E+00	3.49E+07	1.21E+08	2.11	14.24	0.1807	4	3.95E-02	4.51E+02	8.57E-01
448	1.60E+01	5.28E+00	3.52E+07	1.20E+08	2.11	14.29	0.1815	4	3.95E-02	4.54E+02	8.42E-01
449	1.63E+01	5.28E+00	3.56E+07	1.20E+08	2.12	14.34	0.1823	4	3.95E-02	4.57E+02	8.28E-01
450	1.66E+01	5.28E+00	3.59E+07	1.20E+08	2.12	14.4	0.1831	4.1	3.95E-02	4.60E+02	8.14E-01
451	1.69E+01	5.28E+00	3.62E+07	1.19E+08	2.12	14.45	0.1839	4.1	3.95E-02	4.63E+02	8.00E-01
452	1.72E+01	5.28E+00	3.66E+07	1.19E+08	2.13	14.5	0.1847	4.2	3.95E-02	4.66E+02	7.87E-01
453	1.74E+01	5.28E+00	3.69E+07	1.19E+08	2.13	14.56	0.1855	4.2	3.95E-02	4.69E+02	7.73E-01
454	1.77E+01	5.28E+00	3.72E+07	1.18E+08	2.13	14.61	0.1863	4.2	3.95E-02	4.72E+02	7.60E-01
455	1.79E+01	5.28E+00	3.75E+07	1.18E+08	2.14	14.66	0.1872	4.3	3.95E-02	4.75E+02	7.46E-01
456	1.81E+01	5.28E+00	3.79E+07	1.18E+08	2.14	14.71	0.188	4.3	3.95E-02	4.79E+02	7.33E-01
457	1.83E+01	5.28E+00	3.82E+07	1.17E+08	2.14	14.77	0.1888	4.3	3.95E-02	4.82E+02	7.20E-01
458	1.85E+01	5.28E+00	3.85E+07	1.17E+08	2.15	14.82	0.1896	4.4	3.95E-02	4.85E+02	7.07E-01
459	1.87E+01	5.28E+00	3.88E+07	1.17E+08	2.15	14.87	0.1905	4.4	3.95E-02	4.88E+02	6.94E-01
460	1.89E+01	5.28E+00	3.92E+07	1.16E+08	2.15	14.92	0.1913	4.5	3.95E-02	4.91E+02	6.81E-01
461	1.90E+01	5.28E+00	3.95E+07	1.16E+08	2.16	14.98	0.1921	4.5	3.95E-02	4.94E+02	6.68E-01
462	1.92E+01	5.28E+00	3.98E+07	1.16E+08	2.16	15.03	0.193	4.5	3.95E-02	4.97E+02	6.55E-01
463	1.94E+01	5.28E+00	4.02E+07	1.15E+08	2.16	15.08	0.1938	4.6	3.95E-02	5.00E+02	6.43E-01

Cair	Evap (mm/d)	Case	Inheight (m)	Outheight (m)	Inflow (m ³ /s)	Outflow (m ³ /s)	lexchange	Makeup	Makeup_ mass	Lake area (m ²)
3.28E+00	2.08E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.10E+05	3.21E+05	4.14E+00	9.28E+06
3.23E+00	2.08E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.09E+05	3.21E+05	4.09E+00	9.27E+06
3.19E+00	2.07E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.09E+05	3.21E+05	4.04E+00	9.26E+06
3.14E+00	2.07E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.08E+05	3.21E+05	3.99E+00	9.26E+06
3.09E+00	2.06E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.07E+05	3.22E+05	3.93E+00	9.25E+06
3.05E+00	2.06E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.06E+05	3.22E+05	3.88E+00	9.25E+06
3.00E+00	2.05E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.05E+05	3.22E+05	3.83E+00	9.24E+06
2.96E+00	2.05E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.05E+05	3.22E+05	3.78E+00	9.24E+06
2.91E+00	2.05E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.04E+05	3.22E+05	3.72E+00	9.23E+06
2.86E+00	2.04E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.03E+05	3.22E+05	3.67E+00	9.22E+06
2.82E+00	2.04E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.02E+05	3.22E+05	3.62E+00	9.22E+06
2.77E+00	2.03E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.01E+05	3.23E+05	3.57E+00	9.21E+06
2.72E+00	2.03E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.01E+05	3.23E+05	3.51E+00	9.21E+06
2.69E+00	2.03E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-3.40E+05	3.29E+04	3.52E-01	9.20E+06
2.66E+00	2.04E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-3.33E+05	2.04E+04	2.15E-01	9.20E+06
2.63E+00	2.05E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-3.33E+05	2.05E+04	2.12E-01	9.20E+06
2.60E+00	2.05E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-3.32E+05	2.05E+04	2.10E-01	9.20E+06
2.57E+00	2.06E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-3.32E+05	2.06E+04	2.07E-01	9.20E+06
2.54E+00	2.07E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-3.32E+05	2.07E+04	2.05E-01	9.20E+06
2.51E+00	2.08E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-3.31E+05	2.08E+04	2.02E-01	9.20E+06
2.48E+00	2.09E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-3.31E+05	2.09E+04	2.00E-01	9.20E+06
2.45E+00	2.10E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-3.30E+05	2.10E+04	1.97E-01	9.20E+06
2.42E+00	2.11E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-3.30E+05	2.11E+04	1.95E-01	9.20E+06
2.39E+00	2.12E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-3.30E+05	2.12E+04	1.92E-01	9.20E+06
2.36E+00	2.13E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-3.29E+05	2.13E+04	1.90E-01	9.20E+06
2.33E+00	2.13E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-3.29E+05	2.13E+04	1.87E-01	9.20E+06
2.30E+00	2.14E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-3.29E+05	2.14E+04	1.85E-01	9.20E+06
2.27E+00	2.15E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-3.28E+05	2.15E+04	1.82E-01	9.20E+06
2.24E+00	2.16E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-3.28E+05	2.16E+04	1.80E-01	9.20E+06
2.21E+00	2.17E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-3.28E+05	2.17E+04	1.77E-01	9.20E+06
2.18E+00	2.18E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-3.27E+05	2.18E+04	1.75E-01	9.20E+06
2.15E+00	2.19E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-3.27E+05	2.19E+04	1.72E-01	9.20E+06
2.12E+00	2.20E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-3.27E+05	2.20E+04	1.70E-01	9.20E+06
2.09E+00	2.21E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-3.26E+05	2.21E+04	1.67E-01	9.20E+06
2.07E+00	2.22E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-3.26E+05	2.22E+04	1.65E-01	9.20E+06
2.04E+00	2.23E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-3.25E+05	2.23E+04	1.62E-01	9.20E+06

Table C3. Model output from monthly model inputs for Lake Perris, California, methyl *tert*-butyl ether—Continued

Time	C(Epi) (µg/L)	C(Hypol) (µg/L)	VolEpi (m ³)	VolHyp (m ³)	U (m/s)	Tw (°C)	kL (m/d)	MLD	dMLD/dt	Input	Cs (µg/L)
464	1.95E+01	5.28E+00	4.05E+07	1.15E+08	2.17	15.13	0.1946	4.6	3.95E-02	5.03E+02	6.31E-01
465	1.97E+01	5.28E+00	4.08E+07	1.15E+08	2.17	15.19	0.1955	4.7	3.95E-02	5.07E+02	6.18E-01
466	1.98E+01	5.28E+00	4.11E+07	1.14E+08	2.17	15.24	0.1963	4.7	3.95E-02	5.10E+02	6.06E-01
467	1.99E+01	5.28E+00	4.15E+07	1.14E+08	2.18	15.29	0.1972	4.7	3.95E-02	5.13E+02	5.94E-01
468	2.01E+01	5.28E+00	4.18E+07	1.14E+08	2.18	15.34	0.198	4.8	3.95E-02	5.16E+02	5.82E-01
469	2.02E+01	5.28E+00	4.21E+07	1.13E+08	2.18	15.4	0.1989	4.8	3.95E-02	5.19E+02	5.70E-01
470	2.03E+01	5.28E+00	4.24E+07	1.13E+08	2.19	15.45	0.1997	4.9	3.95E-02	5.22E+02	5.58E-01
471	2.04E+01	5.28E+00	4.26E+07	1.13E+08	2.19	15.54	0.2005	4.9	3.95E-02	5.26E+02	5.46E-01
472	2.06E+01	5.28E+00	4.26E+07	1.13E+08	2.19	15.7	0.2016	4.9	-9.86E-03	5.31E+02	5.34E-01
473	2.08E+01	5.30E+00	4.26E+07	1.13E+08	2.19	15.89	0.2028	4.9	-9.86E-03	5.36E+02	5.22E-01
474	2.10E+01	5.31E+00	4.25E+07	1.13E+08	2.18	16.08	0.2038	4.9	-9.86E-03	5.42E+02	5.10E-01
475	2.13E+01	5.32E+00	4.24E+07	1.13E+08	2.18	16.27	0.2049	4.9	-9.86E-03	5.48E+02	4.98E-01
476	2.15E+01	5.33E+00	4.23E+07	1.13E+08	2.18	16.46	0.206	4.9	-9.86E-03	5.53E+02	4.87E-01
477	2.17E+01	5.34E+00	4.22E+07	1.13E+08	2.18	16.65	0.207	4.8	-9.86E-03	5.59E+02	4.76E-01
478	2.19E+01	5.35E+00	4.22E+07	1.13E+08	2.17	16.84	0.2081	4.8	-9.86E-03	5.64E+02	4.65E-01
479	2.21E+01	5.36E+00	4.21E+07	1.13E+08	2.17	17.03	0.2092	4.8	-9.86E-03	5.70E+02	4.54E-01
480	2.23E+01	5.38E+00	4.20E+07	1.13E+08	2.17	17.22	0.2102	4.8	-9.86E-03	5.75E+02	4.44E-01
481	2.25E+01	5.39E+00	4.19E+07	1.14E+08	2.17	17.41	0.2113	4.8	-9.86E-03	5.81E+02	4.34E-01
482	2.27E+01	5.40E+00	4.18E+07	1.14E+08	2.16	17.61	0.2123	4.8	-9.86E-03	5.87E+02	4.24E-01
483	2.29E+01	5.41E+00	4.18E+07	1.14E+08	2.16	17.8	0.2134	4.8	-9.86E-03	5.92E+02	4.14E-01
484	2.31E+01	5.43E+00	4.17E+07	1.14E+08	2.16	17.99	0.2144	4.8	-9.86E-03	5.98E+02	4.05E-01
485	2.33E+01	5.44E+00	4.16E+07	1.14E+08	2.16	18.18	0.2155	4.8	-9.86E-03	6.03E+02	3.96E-01
486	2.35E+01	5.45E+00	4.15E+07	1.14E+08	2.16	18.37	0.2165	4.8	-9.86E-03	6.09E+02	3.87E-01
487	2.36E+01	5.46E+00	4.14E+07	1.14E+08	2.15	18.56	0.2176	4.7	-9.86E-03	6.14E+02	3.78E-01
488	2.38E+01	5.48E+00	4.14E+07	1.14E+08	2.15	18.75	0.2186	4.7	-9.86E-03	6.20E+02	3.69E-01
489	2.40E+01	5.49E+00	4.13E+07	1.14E+08	2.15	18.94	0.2196	4.7	-9.86E-03	6.26E+02	3.61E-01
490	2.42E+01	5.50E+00	4.12E+07	1.14E+08	2.15	19.13	0.2207	4.7	-9.86E-03	6.31E+02	3.52E-01
491	2.44E+01	5.52E+00	4.11E+07	1.14E+08	2.14	19.32	0.2217	4.7	-9.86E-03	6.37E+02	3.44E-01
492	2.45E+01	5.53E+00	4.10E+07	1.14E+08	2.14	19.51	0.2227	4.7	-9.86E-03	6.42E+02	3.36E-01
493	2.47E+01	5.54E+00	4.09E+07	1.15E+08	2.14	19.7	0.2238	4.7	-9.86E-03	6.48E+02	3.29E-01
494	2.49E+01	5.56E+00	4.09E+07	1.15E+08	2.14	19.89	0.2248	4.7	-9.86E-03	6.53E+02	3.21E-01
495	2.50E+01	5.57E+00	4.08E+07	1.15E+08	2.13	20.08	0.2258	4.7	-9.86E-03	6.59E+02	3.14E-01
496	2.52E+01	5.58E+00	4.07E+07	1.15E+08	2.13	20.28	0.2268	4.7	-9.86E-03	6.65E+02	3.06E-01
497	2.54E+01	5.60E+00	4.06E+07	1.15E+08	2.13	20.47	0.2278	4.6	-9.86E-03	6.70E+02	2.99E-01
498	2.55E+01	5.61E+00	4.05E+07	1.15E+08	2.13	20.66	0.2288	4.6	-9.86E-03	6.76E+02	2.92E-01
499	2.57E+01	5.63E+00	4.05E+07	1.15E+08	2.13	20.85	0.2298	4.6	-9.86E-03	6.81E+02	2.86E-01

Cair	Evap (mm/d)	Case	Inheight (m)	Outheight (m)	Inflow (m ³ /s)	Outflow (m ³ /s)	Iexchange	Makeup	Makeup_ mass	Lake area (m ²)
2.01E+00	2.24E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-3.25E+05	2.24E+04	1.60E-01	9.20E+06
1.98E+00	2.25E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-3.25E+05	2.25E+04	1.57E-01	9.20E+06
1.95E+00	2.25E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-3.24E+05	2.25E+04	1.55E-01	9.20E+06
1.92E+00	2.26E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-3.24E+05	2.26E+04	1.53E-01	9.20E+06
1.89E+00	2.27E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-3.24E+05	2.27E+04	1.50E-01	9.20E+06
1.86E+00	2.28E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-3.23E+05	2.28E+04	1.48E-01	9.20E+06
1.83E+00	2.29E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-3.23E+05	2.29E+04	1.45E-01	9.20E+06
1.80E+00	2.31E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-1.04E+05	2.31E+04	1.43E-01	9.20E+06
1.79E+00	2.33E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	8.07E+04	2.33E+04	1.41E-01	9.20E+06
1.78E+00	2.36E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	8.07E+04	2.37E+04	1.38E-01	9.20E+06
1.77E+00	2.38E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	8.07E+04	2.39E+04	1.38E-01	9.20E+06
1.76E+00	2.41E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	8.07E+04	2.41E+04	1.36E-01	9.20E+06
1.75E+00	2.43E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	8.08E+04	2.44E+04	1.34E-01	9.20E+06
1.74E+00	2.46E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	8.08E+04	2.47E+04	1.33E-01	9.20E+06
1.73E+00	2.49E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	8.08E+04	2.49E+04	1.31E-01	9.20E+06
1.72E+00	2.52E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	8.08E+04	2.52E+04	1.30E-01	9.20E+06
1.71E+00	2.54E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	8.09E+04	2.55E+04	1.28E-01	9.20E+06
1.70E+00	2.57E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	8.09E+04	2.58E+04	1.26E-01	9.20E+06
1.69E+00	2.60E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	8.09E+04	2.62E+04	1.24E-01	9.20E+06
1.68E+00	2.63E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	8.09E+04	2.64E+04	1.23E-01	9.20E+06
1.67E+00	2.66E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	8.09E+04	2.67E+04	1.21E-01	9.20E+06
1.66E+00	2.69E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	8.10E+04	2.69E+04	1.20E-01	9.20E+06
1.65E+00	2.72E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	8.10E+04	2.72E+04	1.19E-01	9.20E+06
1.64E+00	2.75E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	8.10E+04	2.75E+04	1.17E-01	9.20E+06
1.63E+00	2.78E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	8.10E+04	2.78E+04	1.16E-01	9.20E+06
1.62E+00	2.81E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	8.11E+04	2.81E+04	1.15E-01	9.20E+06
1.61E+00	2.84E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	8.11E+04	2.84E+04	1.13E-01	9.20E+06
1.60E+00	2.87E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	8.11E+04	2.87E+04	1.12E-01	9.20E+06
1.59E+00	2.90E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	8.11E+04	2.90E+04	1.10E-01	9.20E+06
1.58E+00	2.93E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	8.11E+04	2.94E+04	1.09E-01	9.20E+06
1.57E+00	2.96E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	8.12E+04	2.97E+04	1.08E-01	9.20E+06
1.56E+00	2.99E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	8.12E+04	3.00E+04	1.06E-01	9.20E+06
1.55E+00	3.03E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	8.12E+04	3.04E+04	1.05E-01	9.20E+06
1.54E+00	3.06E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	8.12E+04	3.06E+04	1.04E-01	9.20E+06
1.53E+00	3.09E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	8.13E+04	3.11E+04	1.02E-01	9.20E+06
1.52E+00	3.12E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	8.13E+04	3.13E+04	1.01E-01	9.20E+06

Table C3. Model output from monthly model inputs for Lake Perris, California, methyl *tert*-butyl ether—Continued

Time	C(Epi) (µg/L)	C(Hypol) (µg/L)	VolEpi (m ³)	VolHyp (m ³)	U (m/s)	Tw (°C)	kL (m/d)	MLD	dMLD/dt	Input	Cs (µg/L)
500	2.58E+01	5.64E+00	4.04E+07	1.15E+08	2.12	21.04	0.2308	4.6	-9.86E-03	6.87E+02	2.79E-01
501	2.60E+01	5.66E+00	4.03E+07	1.15E+08	2.12	21.22	0.2318	4.6	-4.93E-03	6.92E+02	2.73E-01
502	2.62E+01	5.66E+00	4.04E+07	1.15E+08	2.12	21.36	0.2324	4.6	-4.93E-03	6.96E+02	2.68E-01
503	2.61E+01	5.66E+00	4.06E+07	1.14E+08	2.12	21.47	0.2327	4.6	2.96E-02	6.98E+02	2.65E-01
504	2.60E+01	5.66E+00	4.08E+07	1.14E+08	2.11	21.57	0.2329	4.7	2.96E-02	7.01E+02	2.62E-01
505	2.59E+01	5.66E+00	4.10E+07	1.13E+08	2.11	21.67	0.2332	4.7	2.96E-02	7.03E+02	2.59E-01
506	2.59E+01	5.66E+00	4.12E+07	1.13E+08	2.11	21.77	0.2335	4.7	2.96E-02	7.05E+02	2.57E-01
507	2.58E+01	5.66E+00	4.15E+07	1.12E+08	2.11	21.87	0.2338	4.8	2.96E-02	7.08E+02	2.54E-01
508	2.58E+01	5.66E+00	4.17E+07	1.12E+08	2.1	21.98	0.2341	4.8	2.96E-02	7.10E+02	2.51E-01
509	2.57E+01	5.66E+00	4.19E+07	1.11E+08	2.1	22.08	0.2343	4.8	2.96E-02	7.12E+02	2.48E-01
510	2.57E+01	5.66E+00	4.21E+07	1.11E+08	2.1	22.18	0.2346	4.9	2.96E-02	7.15E+02	2.45E-01
511	2.56E+01	5.66E+00	4.23E+07	1.10E+08	2.09	22.28	0.2349	4.9	2.96E-02	7.17E+02	2.43E-01
512	2.56E+01	5.66E+00	4.25E+07	1.10E+08	2.09	22.38	0.2351	4.9	2.96E-02	7.20E+02	2.40E-01
513	2.56E+01	5.66E+00	4.27E+07	1.09E+08	2.09	22.48	0.2354	4.9	2.96E-02	7.22E+02	2.37E-01
514	2.56E+01	5.66E+00	4.29E+07	1.09E+08	2.09	22.59	0.2357	5	2.96E-02	7.24E+02	2.35E-01
515	2.56E+01	5.66E+00	4.31E+07	1.08E+08	2.08	22.69	0.2359	5	2.96E-02	7.27E+02	2.32E-01
516	2.55E+01	5.66E+00	4.33E+07	1.08E+08	2.08	22.79	0.2362	5	2.96E-02	7.29E+02	2.29E-01
1816	6.95E+00	7.18E+00	1.49E+08	2.59E+06	2.05	16.31	0.1853	26.1	-2.76E-01	2.29E+01	1.40E+00
1817	6.90E+00	7.14E+00	1.48E+08	3.02E+06	2.05	16.24	0.185	25.9	-2.76E-01	2.34E+01	1.41E+00
1818	6.85E+00	7.11E+00	1.47E+08	3.45E+06	2.05	16.17	0.1847	25.6	-2.76E-01	2.39E+01	1.41E+00
1819	6.81E+00	7.08E+00	1.46E+08	3.89E+06	2.05	16.1	0.1843	25.3	-2.76E-01	2.44E+01	1.42E+00
1820	6.76E+00	7.05E+00	1.45E+08	4.34E+06	2.05	16.03	0.184	25	-2.76E-01	2.48E+01	1.43E+00
1821	6.71E+00	7.02E+00	1.44E+08	4.81E+06	2.05	15.95	0.1836	24.8	-2.76E-01	2.53E+01	1.44E+00
1822	6.67E+00	6.99E+00	1.43E+08	5.28E+06	2.05	15.88	0.1833	24.5	-2.76E-01	2.58E+01	1.44E+00
1823	6.62E+00	6.96E+00	1.41E+08	5.76E+06	2.05	15.81	0.1829	24.2	-2.76E-01	2.62E+01	1.45E+00
1824	6.58E+00	6.93E+00	1.40E+08	6.25E+06	2.05	15.74	0.1826	23.9	-2.76E-01	2.67E+01	1.46E+00
1825	6.53E+00	6.90E+00	1.39E+08	6.76E+06	2.06	15.66	0.1823	23.7	-2.76E-01	2.72E+01	1.47E+00

Cair	Evap (mm/d)	Case	Inheight (m)	Outheight (m)	Inflow (m³/s)	Outflow (m³/s)	lexchange	Makeup	Makeup_ mass	Lake area (m²)
1.51E+00	3.16E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	8.13E+04	3.18E+04	9.93E-02	9.20E+06
1.50E+00	3.19E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	6.78E+03	-5.92E+03	-1.74E+00	9.20E+06
1.50E+00	3.22E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.15E+05	-2.70E+05	-8.02E+01	9.21E+06
1.49E+00	3.24E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.14E+05	-2.70E+05	-7.98E+01	9.21E+06
1.49E+00	3.25E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.13E+05	-2.70E+05	-7.95E+01	9.22E+06
1.49E+00	3.27E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.12E+05	-2.69E+05	-7.91E+01	9.22E+06
1.48E+00	3.29E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.11E+05	-2.69E+05	-7.88E+01	9.23E+06
1.48E+00	3.31E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.10E+05	-2.68E+05	-7.85E+01	9.24E+06
1.48E+00	3.33E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.09E+05	-2.68E+05	-7.83E+01	9.24E+06
1.47E+00	3.35E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.08E+05	-2.68E+05	-7.80E+01	9.25E+06
1.47E+00	3.37E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.07E+05	-2.67E+05	-7.78E+01	9.25E+06
1.47E+00	3.39E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.07E+05	-2.67E+05	-7.76E+01	9.26E+06
1.47E+00	3.41E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.06E+05	-2.66E+05	-7.74E+01	9.27E+06
1.46E+00	3.43E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.05E+05	-2.66E+05	-7.72E+01	9.27E+06
1.46E+00	3.45E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.04E+05	-2.66E+05	-7.70E+01	9.28E+06
1.46E+00	3.47E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.03E+05	-2.65E+05	-7.69E+01	9.28E+06
1.45E+00	3.50E+07	4	4.40E+00	1.21E+01	0.00E+00	0.00E+00	-5.02E+05	-2.65E+05	-7.67E+01	9.29E+06
4.96E+00	2.33E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	4.18E+05	-5.77E+05	-4.55E+01	9.28E+06
4.95E+00	2.32E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	4.28E+05	-5.76E+05	-4.51E+01	9.29E+06
4.94E+00	2.31E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	4.37E+05	-5.75E+05	-4.47E+01	9.31E+06
4.94E+00	2.31E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	4.47E+05	-5.75E+05	-4.44E+01	9.32E+06
4.93E+00	2.30E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	4.57E+05	-5.74E+05	-4.40E+01	9.33E+06
4.92E+00	2.29E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	4.67E+05	-5.73E+05	-4.36E+01	9.34E+06
4.92E+00	2.29E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	4.77E+05	-5.72E+05	-4.33E+01	9.35E+06
4.91E+00	2.28E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	4.88E+05	-5.72E+05	-4.29E+01	9.36E+06
4.90E+00	2.27E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	4.98E+05	-5.71E+05	-4.26E+01	9.38E+06
4.90E+00	2.27E+07	1	4.40E+00	1.21E+01	0.00E+00	0.00E+00	5.09E+05	-5.70E+05	-4.23E+01	9.39E+06

Appendix D - Example Physical/Chemical Properties for Selected Volatile Organic Compounds

Table D1. Example physical/chemical properties for selected volatile organic compounds[g/mol, grams per mole; Pa-m³/mol, Pascals-cubic meters per mole; cm³/mol, cubic centimeters per mole]

Compound	Molecular weight (g/mol)	Henry's law constant temperature-dependent equation (Pa-m ³ /mol)	Molar volume (cm ³ /mol)	Surface-water half-life (hours) ¹	Anaerobic half-life (hours) ¹
Methyl <i>tert</i> -butyl ether	88.15	² Exp(30.06-7721/T(K))	³ 129.4	672-4,320	2,688-17,280
Benzene	78.11	⁴ Exp(19.22-3887/T(K))	⁵ 96.0	120-384	2,688-17,280
Toluene	92.13	⁴ Exp(20.81-4317/T(K))	⁵ 118.0	96-528	1,344-5,040
Ethylbenzene	106.17	⁴ Exp(23.6-5092/T(K))	⁵ 122.5	72-240	4,227-5,472
<i>o</i> -Xylene	106.17	⁴ Exp(22.4-4872/T(K))	⁵ 120.6	168-672	4,320-8,640
<i>m</i> -Xylene	106.17	⁴ Exp(20.89-4315/T(K))	⁵ 121.20	168-672	4,320-8,640
<i>p</i> -Xylene	106.17	⁴ Exp(22.88-4912/T(K))	⁵ 123.93	168-672	4,320-8,640
Chloroform	119.38	⁶ Exp(19.4-3998/T(K))	³ 80.64	672-4,320	168-672

¹Howard and others, 1991.²Robbins and others, 1993.³Mackay and others, 1993.⁴Dewulf and others, 1995.⁵Mackay and others, 1992.⁶Leighton and Calo, 1981.