

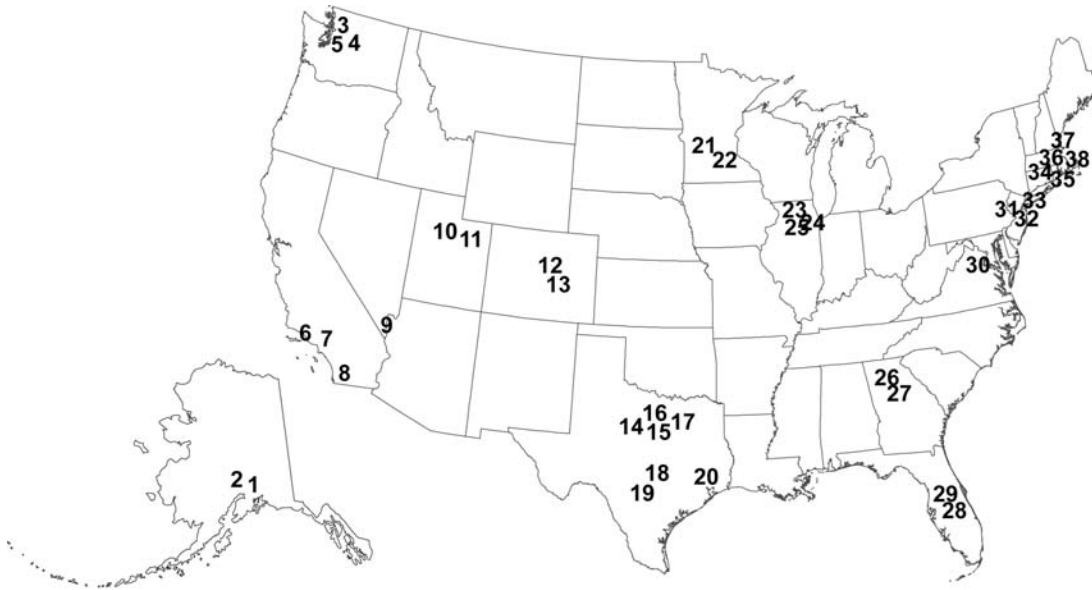
## **Supporting Information Contents**

Figure SI1. Map with locations and land-use category for lakes sampled.

Table SI1. Lake locations and characteristics.

Table SI2. Trend test results for individual lakes by compound.

Table SI3. Median decadal concentrations for 1965-75 and 1990s to top of core, by lake and by compound.



Map number	Lake Name	Nearest Urban Area	State	Map number	Lake Name	Nearest Urban Area	State
1	Hillstrand Pond	Anchorage	AK	20	Lake Houston	Houston	TX
2	Westchester Lagoon	Anchorage	AK	21	Palmer Lake, West Lobe	Minneapolis	MN
3	Lake Ballinger	Seattle	WA	22	Lake Harriet	Minneapolis	MN
4	Tolt Reservoir	Seattle	WA	23	Lake in the Hills	Chicago	IL
5	Lake Washington	Seattle	WA	24	Beck Lake	Chicago	IL
6	West Street Basin	Los Angeles	CA	25	Shoe Factory Road Pond	Chicago	IL
7	R.R. Canyon Lake	Los Angeles	CA	26	Berkeley Lake	Atlanta	GA
8	Sweetwater Reservoir	San Diego	CA	27	Lake Panola	Atlanta	GA
9	Lake Mead, Las Vegas Bay	Las Vegas	NV	28	Lake Killarney	Orlando	FL
10	Great Salt Lake, Farmington Bay	Salt Lake City	UT	29	Sand Lake	Orlando	FL
11	Red Butte Reservoir	Salt Lake City	UT	30	Lake Anne	Washington D.C.	VA
12	Sloans Lake	Denver	CO	31	Clyde Potts Reservoir	Newark	NJ
13	Cherry Creek Reservoir	Denver	CO	32	Orange Reservoir	Newark	NJ
14	Lake Como	Fort Worth	TX	33	Newbridge Pond	New York City	NY
15	Echo Lake	Fort Worth	TX	34	Big Round Top	Boston	RI
16	Fosdic Lake	Fort Worth	TX	35	Harris Pond, Middle	Boston	MA
17	White Rock Lake	Dallas	TX	36	Upper Mystic Lake	Boston	MA
18	Town Lake	Austin	TX	37	South Reservoir	Boston	MA
19	Lorence Creek Lake	San Antonio	TX	38	Charles River, Lower	Boston	MA

Figure S11. Locations and names of lakes sampled in this study.

Table SI1. Lake locations and characteristics.

MAP #	Lake Name	Date Sampled	Lake or Reservoir	Water depth at coring site (m)	Drainage area (km <sup>2</sup> )	Latitude	Longitude	Percent Urban (17)	Land Use Setting
1	Hillstrand Pond	6/4/1998	reservoir	0.5	57.6	61° 12' 02"	149° 50' 20"	35.0	light urban
2	Westchester Lagoon	6/4/1998	reservoir	1.5	71.7	61° 12' 16"	149° 54' 28"	75.0	dense urban
3	Lake Ballinger	6/8/1998	lake	9.9	13.7	47° 46' 54"	122° 19' 38"	73.1	dense urban
4	Tolt Reservoir	6/11/1998	reservoir	18.3	47.3	47° 42' 13"	121° 38' 03"	0.1	reference
5	Lake Washington	6/9/1998	lake	62.5	1,470	47° 39' 47"	122° 14' 40"	37.6	light urban
6	West Street Basin	11/12/1998	reservoir	1.2	3.3	33° 47' 14"	117° 55' 20"	79.8	dense urban
7	R.R. Canyon Lake	11/10/1998	reservoir	11.3	1,860	33° 40' 53"	117° 16' 32"	8.3	light urban
8	Sweetwater Reservoir	9/24/1998	reservoir	16.2	469	32° 41' 37"	116° 59' 56"	9.9	light urban
9	Lake Mead	5/11/1998	reservoir	105.0	5,240	36° 05' 46"	114° 47' 56"	7.9	light urban
10	Great Salt Lake	4/7/1998	lake	1.2	10,300	40° 57' 00"	111° 58' 00"	11.0	light urban
11	Red Butte Reservoir	4/9/1998	reservoir	7.6	19.7	40° 46' 42"	111° 48' 40"	0.0	reference
12	Sloans Lake	8/19/1997	lake	1.1	8.2	39° 44' 51"	105° 02' 57"	80.1	dense urban
13	Cherry Creek Reservoir	8/18/1997	reservoir	7.0	997	39° 38' 29"	104° 51' 48"	5.0	light urban
14	Lake Como	3/8/2001	reservoir	7.8	2.7	32° 43' 38"	97° 23' 56"	93.9	dense urban
15	Echo Lake	3/6/2001	reservoir	4.6	2.6	32° 41' 56"	97° 18' 52"	95.5	dense urban
16	Fosdic Lake	3/7/2001	reservoir	2.4	1.2	32° 45' 18"	97° 15' 32"	83.7	dense urban
17	White Rock Lake	7/6/1994	reservoir	4.6	264	32° 49' 20"	96° 43' 15"	66.5	dense urban
18	Town Lake	8/26/1998	reservoir	8.7	405	30° 14' 44"	97° 43' 04"	25.0	light urban
19	Lorence Creek Lake	8/23/1996	reservoir	0.9	5.0	29° 35' 47"	98° 28' 34"	35.6	light urban
20	Lake Houston	7/10/1997	reservoir	13.4	2,830	29° 55' 25"	95° 08' 26"	6.7	light urban
21	Palmer Lake, West Lobe	7/30/1997	lake	0.6	64.2	45° 04' 55"	93° 19' 04"	51.9	dense urban
22	Lake Harriet	7/29/1997	lake	21.3	6.07	44° 55' 32"	93° 18' 20"	60.6	dense urban
23	Lake in the Hills	7/19/2001	reservoir	8.5	24.0	42° 10' 49"	88° 19' 08"	14.9	light urban
24	Beck Lake	7/17/2001	reservoir	4.0	3.26	42° 04' 31"	87° 52' 26"	21.3	light urban
25	Shoe Factory Rd. Pond	7/18/2001	lake	0.5	0.02	42° 03' 02"	88° 11' 59"	0.0	reference
26	Berkeley Lake	5/19/1999	reservoir	15.2	3.01	33° 59' 07"	84° 11' 07"	28.1	light urban
27	Lake Panola	5/18/1999	reservoir	5.2	0.54	33° 37' 57"	84° 10' 27"	1.1	reference
28	Lake Killarney	3/16/1999	lake	7.5	6.34	28° 35' 56"	81° 22' 18"	63.9	dense urban
29	Sand Lake	3/17/1999	lake	4.6	0.85	28° 43' 16"	81° 28' 18"	0.0	reference
30	Lake Anne	6/24/1996	reservoir	8.2	2.28	38° 57' 53"	77° 20' 05"	34.4	light urban
31	Clyde Potts Reservoir	9/15/1997	reservoir	14.0	5.38	40° 48' 25"	74° 34' 53"	7.8	light urban
32	Orange Reservoir	9/18/1997	reservoir	3.0	11.6	40° 45' 36"	74° 17' 12"	42.5	light urban
33	Newbridge Pond	9/22/1997	reservoir	1.8	7.9	40° 40' 00"	73° 32' 39"	96.0	dense urban
34	Big Round Top	7/25/2000	reservoir	1.2	23.3	42° 00' 08"	71° 42' 01"	1.5	reference
35	Harris Pond, Middle	7/26/2000	reservoir	5.0	82.7	42° 01' 48"	71° 30' 20"	10.6	light urban
36	Upper Mystic Lake	8/31/2000	lake	1.4	66.2	42° 26' 37"	71° 08' 41"	67.3	dense urban
37	South Reservoir	9/1/2000	reservoir	13.9	1.90	42° 26' 39"	71° 06' 59"	0.2	reference
38	Charles River, Lower	7/28/2000	reservoir	9.8	787	42° 21' 15"	71° 05' 14"	71.8	dense urban

Table SI2. Trend test results for individual lakes and compounds. [id, insufficient detections]

MAP number	Lake Name	Valid n	Naphthalene		Fluorene		Phenanthrene		Anthracene		Fluoranthene	
			Tau	p-value	Tau	p-value	Tau	p-value	Tau	p-value	Tau	p-value
1	Hillstrand Pond	10	-0.40	0.103	-0.64	0.009	-0.09	0.717	0.20	0.421	0.24	0.325
2	Westchester Lagoon	8	-0.43	0.138	-0.57	0.048	-0.29	0.322	-0.47	0.101	0.11	0.705
3	Lake Ballinger	11	0.75	0.001	0.16	0.484	0.44	0.059	0.53	0.024	0.64	0.006
4	Tolt Reservoir	6	-0.33	0.348	-0.33	0.348	-0.33	0.348	-0.47	0.188	-0.60	0.091
5	Lake Washington	9	-0.73	0.006	-0.69	0.010	-0.56	0.037	-0.67	0.012	-0.54	0.045
6	West Street Basin	9	0.11	0.677	-0.28	0.297	-0.17	0.532	-0.11	0.677	0.00	1.000
7	R.R. Canyon Lake	13	-0.10	0.621	-0.09	0.667	0.17	0.425	-0.03	0.903	0.12	0.581
8	Sweetwater Reservoir	10	0.45	0.070	0.24	0.325	0.38	0.128	-0.18	0.469	0.16	0.531
9	Lake Mead	8	0.50	0.083	0.57	0.048	0.55	0.059	0.43	0.138	0.71	0.013
10	Great Salt Lake	5	1.00	0.014	0.32	0.439	0.32	0.439	1.00	0.014	1.00	0.014
11	Red Butte Reservoir	8	0.30	0.304	0.21	0.458	0.11	0.694	0.40	0.166	0.16	0.577
12	Sloans Lake	7	0.78	0.014	-0.52	0.099	0.05	0.881	-0.43	0.176	0.29	0.356
13	Cherry Creek Reservoir	11	0.19	0.414	0.40	0.084	0.56	0.016	0.37	0.116	0.53	0.024
14	Lake Como	8	0.43	0.138	-0.29	0.322	-0.07	0.805	-0.36	0.216	0.07	0.805
15	Echo Lake	7	0.33	0.293	0.14	0.652	0.52	0.099	0.33	0.293	0.81	0.011
16	Fosdic Lake	6	0.60	0.091	0.07	0.851	0.47	0.188	0.60	0.091	0.47	0.188
17	White Rock Lake	11	0.75	0.001	-0.24	0.303	0.78	0.001	0.82	0.000	0.78	0.001
18	Town Lake	5	0.40	0.327	0.80	0.050	0.80	0.050	0.80	0.050	1.00	0.014
19	Lorence Creek Lake	7	-0.33	0.293	-0.33	0.293	-0.24	0.453	-0.14	0.652	-0.05	0.881
20	Lake Houston	6	0.55	0.120	0.55	0.120	0.47	0.188	0.47	0.188	0.60	0.091
21	Palmer Lake, West Lobe	11	0.38	0.102	0.45	0.052	0.78	0.001	0.71	0.002	0.64	0.006
22	Lake Harriet	8	-0.50	0.083	-0.50	0.083	-0.50	0.083	-0.14	0.621	0.00	1.000
23	Lake in the Hills	10	0.90	0.000	0.85	0.001	0.82	0.001	0.82	0.001	0.91	0.000
24	Beck Lake	10	0.47	0.060	0.11	0.655	0.56	0.025	0.33	0.180	0.51	0.040
25	Shoe Factory Rd Pond	5	0.60	0.142	0.80	0.050	0.60	0.142	0.80	0.050	0.80	0.050
26	Berkeley Lake	8	-0.07	0.805	-0.29	0.322	-0.29	0.322	0.43	0.138	0.29	0.322
27	Lake Panola	5	-0.20	0.624	-0.53	0.197	-0.80	0.050	-0.80	0.050	-1.00	0.014
28	Lake Killarney	9	0.39	0.144	0.33	0.211	0.42	0.113	0.39	0.144	0.50	0.061
29	Sand Lake	6	0.07	0.851	-0.14	0.697	-0.41	0.243	-0.41	0.243	-0.20	0.573
30	Lake Anne	9	0.61	0.022	0.83	0.002	0.89	0.001	0.83	0.002	0.89	0.001
31	Clyde Potts Reservoir	10	0.20	0.421	0.11	0.655	0.42	0.089	-0.09	0.717	0.33	0.180
32	Orange Reservoir	9	0.39	0.144	0.50	0.061	0.78	0.004	0.56	0.037	0.78	0.004
33	Newbridge Pond	15	0.10	0.619	0.33	0.083	0.68	0.000	0.52	0.006	0.73	0.000
34	Big Round Top	5	0.00	1.000	-0.20	0.624	-0.20	0.624	-0.40	0.327	0.00	1.000
35	Harris Pond, Middle	11	-0.53	0.024	-0.20	0.392	0.31	0.186	-0.20	0.392	0.59	0.012
36	Upper Mystic Lake	8	-0.14	0.621	0.00	1.000	0.36	0.216	-0.40	0.166	0.36	0.216
37	South Reservoir	5	-0.60	0.142	-0.80	0.050	-0.60	0.142	-0.80	0.050	-0.60	0.142
38	Charles River, Lower	6	-0.41	0.243	-0.73	0.039	-0.60	0.091	-0.20	0.573	-0.07	0.851

Table SI2, cont.

MAP number	Lake Name	Pyrene		Benz[a]anthracene		Chrysene		Benzo[a]pyrene		ΣPAH	
		Tau	p-value	Tau	p-value	Tau	p-value	Tau	p-value	Tau	p-value
1	Hillstrand Pond	0.11	0.655	0.38	0.128	0.29	0.245	0.47	0.060	0.02	0.929
2	Westchester Lagoon	-0.43	0.138	-0.21	0.458	-0.14	0.621	-0.14	0.621	-0.50	0.083
3	Lake Ballinger	0.64	0.006	0.66	0.005	0.64	0.006	0.67	0.004	0.67	0.004
4	Tolt Reservoir	-0.69	0.052	-0.47	0.188	-0.60	0.091	-0.47	0.188	-0.47	0.188
5	Lake Washington	-0.61	0.022	-0.61	0.022	-0.56	0.037	-0.61	0.022	-0.61	0.022
6	West Street Basin	-0.03	0.916	0.00	1.000	0.00	1.000	-0.06	0.835	-0.17	0.532
7	R.R. Canyon Lake	0.14	0.499	0.22	0.297	0.27	0.197	0.17	0.425	0.10	0.625
8	Sweetwater Reservoir	0.29	0.245	0.45	0.070	0.47	0.060	0.56	0.025	0.33	0.180
9	Lake Mead	0.64	0.026	0.50	0.083	0.40	0.166	0.50	0.083	0.50	0.083
10	Great Salt Lake	1.00	0.014	1.00	0.014	0.40	0.327	0.80	0.050	1.00	0.014
11	Red Butte Reservoir	0.26	0.359	0.15	0.593	0.18	0.529	-0.49	0.089	0.21	0.458
12	Sloans Lake	0.25	0.430	0.68	0.031	0.45	0.155	0.71	0.024	0.52	0.099
13	Cherry Creek Reservoir	0.64	0.006	0.64	0.006	0.67	0.004	0.64	0.006	0.53	0.024
14	Lake Como	0.07	0.805	0.07	0.805	0.36	0.216	0.21	0.458	0.14	0.621
15	Echo Lake	0.71	0.024	0.62	0.051	0.81	0.011	0.62	0.051	0.71	0.024
16	Fosdic Lake	0.47	0.188	0.47	0.188	0.60	0.091	0.60	0.091	0.47	0.188
17	White Rock Lake	0.78	0.001	0.75	0.001	0.82	0.000	0.82	0.000	0.78	0.001
18	Town Lake	1.00	0.014	1.00	0.014	1.00	0.014	1.00	0.014	1.00	0.014
19	Lorence Creek Lake	-0.05	0.881	0.00	1.000	0.33	0.293	0.14	0.652	-0.05	0.881
20	Lake Houston	0.33	0.348	0.60	0.091	-0.07	0.851	0.60	0.091	0.47	0.188
21	Palmer Lake, West Lobe	0.66	0.005	0.71	0.002	0.75	0.001	0.82	0.000	0.71	0.002
22	Lake Harriet	-0.07	0.805	0.00	1.000	0.00	1.000	0.07	0.805	0.00	1.000
23	Lake in the Hills	0.87	0.000	0.91	0.000	0.87	0.000	0.87	0.000	0.87	0.000
24	Beck Lake	0.51	0.040	0.49	0.047	0.51	0.040	0.54	0.030	0.69	0.006
25	Shoe Factory Road Pond	0.80	0.050	0.80	0.050	0.60	0.142	1.00	0.014	0.20	0.624
26	Berkeley Lake	0.43	0.138	0.43	0.138	0.57	0.048	0.57	0.048	0.36	0.216
27	Lake Panola	-1.00	0.014	-0.40	0.327	-1.00	0.014	-0.60	0.142	-0.60	0.142
28	Lake Killarney	0.50	0.061	0.44	0.095	0.44	0.095	0.44	0.095	0.44	0.095
29	Sand Lake	-0.20	0.573	-0.07	0.851	-0.07	0.851	0.07	0.851	-0.07	0.851
30	Lake Anne	0.89	0.001	0.72	0.007	0.89	0.001	0.78	0.004	0.89	0.001
31	Clyde Potts Reservoir	0.24	0.325	0.07	0.788	0.29	0.245	0.02	0.929	0.20	0.421
32	Orange Reservoir	0.78	0.004	0.67	0.012	0.83	0.002	0.72	0.007	0.72	0.007
33	Newbridge Pond	0.69	0.000	0.68	0.000	0.66	0.001	0.52	0.006	0.70	0.000
34	Big Round Top	0.00	1.000	0.20	0.624	0.00	1.000	0.00	1.000	0.00	1.000
35	Harris Pond, Middle	0.38	0.102	0.42	0.073	0.45	0.052	0.75	0.001	0.53	0.024
36	Upper Mystic Lake	0.18	0.529	0.07	0.805	0.29	0.322	-0.21	0.458	0.21	0.458
37	South Reservoir	-0.60	0.142	-0.80	0.050	-0.74	0.071	-0.80	0.050	-0.60	0.142
38	Charles River, Lower	-0.33	0.348	-0.20	0.573	-0.07	0.851	-0.20	0.573	-0.07	0.851

Table SI2, cont.

MAP number	Lake Name	Valid n	Chlordane		DDD		DDE		ΣDDT		ΣPCB	
			Tau	p-value	Tau	p-value	Tau	p-value	Tau	p-value	Tau	p-value
1	Hillstrand Pond	10	-0.58	0.019	-0.52	0.035	-0.72	0.004	-0.73	0.003	-0.72	0.004
2	Westchester Lagoon	8	-0.71	0.013	-0.57	0.050	-0.21	0.458	-0.50	0.083	-0.79	0.006
3	Lake Ballinger	11	-0.09	0.697	-0.24	0.312	-0.11	0.637	-0.13	0.586	-0.24	0.312
4	Tolt Reservoir	6	<i>id</i>		-0.45	0.208	-0.75	0.036	-0.60	0.091	<i>id</i>	
5	Lake Washington	9	-0.59	0.026	-0.83	0.002	-0.65	0.015	-0.78	0.004	-0.67	0.012
6	West Street Basin	9	-0.42	0.113	0.08	0.751	0.23	0.391	0.17	0.532	-0.33	0.211
7	R.R. Canyon Lake	13	0.24	0.253	-0.56	0.007	-0.54	0.010	-0.72	0.001	-0.51	0.016
8	Sweetwater Reservoir	10	<i>id</i>		-0.74	0.003	-0.07	0.788	-0.73	0.003	<i>id</i>	
9	Lake Mead	8	<i>id</i>		0.11	0.705	0.25	0.378	0.21	0.458	0.04	0.900
10	Great Salt Lake	5	<i>id</i>	<i>id</i>			-0.95	0.020	-0.74	0.071	-0.80	0.050
11	Red Butte Reservoir	8	<i>id</i>	<i>id</i>	<i>id</i>	<i>id</i>	<i>id</i>	<i>id</i>	<i>id</i>	<i>id</i>	<i>id</i>	<i>id</i>
12	Sloans Lake	7	-0.24	0.453	-0.49	0.124	-0.90	0.004	-0.90	0.004	-0.33	0.293
13	Cherry Creek Reservoir	11	<i>id</i>		-0.87	0.000	-0.56	0.016	-0.67	0.004	<i>id</i>	
14	Lake Como	8	-0.33	0.257	-0.40	0.166	-0.64	0.026	-0.50	0.083	-0.64	0.026
15	Echo Lake	7	0.20	0.538	-0.81	0.011	-0.81	0.011	-0.90	0.004	-0.14	0.652
16	Fosdic Lake	6	0.87	0.015	<i>id</i>		-0.60	0.091	-0.47	0.188	-0.47	0.188
17	White Rock Lake	11	0.78	0.001	-0.40	0.084	-0.92	0.000	-0.89	0.000	-0.82	0.000
18	Town Lake	5	-0.20	0.624	-0.80	0.050	-0.53	0.197	-1.00	0.014	-0.20	0.624
19	Lorence Creek Lake	7	0.71	0.024	0.14	0.652	-0.62	0.051	-0.52	0.099	-0.43	0.176
20	Lake Houston	7	<i>id</i>	<i>id</i>			-0.62	0.051	-0.52	0.099	<i>id</i>	
21	Palmer Lake, West Lobe	11	0.40	0.084	-0.02	0.938	0.11	0.637	0.02	0.938	0.31	0.186
22	Lake Harriet	8	0.64	0.026	-0.76	0.008	0.25	0.378	-0.36	0.216	0.00	1.000
23	Lake in the Hills	10	<i>id</i>	<i>id</i>			-0.51	0.040	-0.78	0.002	-0.82	0.001
24	Beck Lake	10	<i>id</i>		0.42	0.089	0.02	0.929	0.11	0.655	0.11	0.655
25	Shoe Factory Road Pond	5	<i>id</i>	<i>id</i>			0.40	0.327	0.40	0.327	<i>id</i>	
26	Berkeley Lake	8	-0.25	0.378	<i>id</i>		-0.36	0.216	-0.50	0.083	-0.47	0.101
27	Lake Panola	5	<i>id</i>		0.00	1.000	-0.32	0.439	0.00	1.000	<i>id</i>	
28	Lake Killarney	9	0.44	0.095	0.14	0.597	-0.17	0.532	-0.28	0.297	-0.11	0.677
29	Sand Lake	6	<i>id</i>	<i>id</i>			-1.00	0.005	-1.00	0.005	<i>id</i>	
30	Lake Anne	12	-0.33	0.131	-0.42	0.055	-0.57	0.009	-0.24	0.273	-0.24	0.273
31	Clyde Potts Reservoir	10	0.00	1.000	-0.20	0.421	-0.43	0.082	-0.20	0.421	-0.45	0.070
32	Orange Reservoir	9	0.14	0.597	-0.83	0.002	0.11	0.677	-0.50	0.061	-0.39	0.144
33	Newbridge Pond	11	-0.62	0.008	-0.46	0.047	-0.62	0.008	-0.56	0.016	-0.27	0.243
34	Big Round Top Pond	5	0.40	0.327	-0.74	0.071	-0.74	0.071	-0.74	0.071	-0.40	0.327
35	Harris Pond	11	-0.56	0.016	<i>id</i>		-0.32	0.169	-0.20	0.383	-0.38	0.102
36	Upper Mystic Lake	8	-0.40	0.166	-0.40	0.166	-0.36	0.216	-0.36	0.216	-0.36	0.216
37	South Reservoir	5	-0.53	0.197	-0.60	0.142	-0.74	0.071	-0.40	0.327	0.40	0.327
38	Charles River, Lower	6	-0.28	0.437	-0.30	0.401	-0.47	0.188	-0.33	0.348	-1.00	0.005

Table S13. Mean decadal concentrations for 1970 (1965-75) and the 1990s (1990 to top of core). [*nd*, not detected]

MAP number	Lake Name	Concentration ( $\mu\text{g}/\text{kg}$ )									
		Naphthalene		Fluorene		Phenanthrene		Anthracene		Fluoranthene	
		1970	1990s	1970	1990s	1970	1990s	1970	1990s	1970	1990s
1	Hillstrand Pond	16	15	28	14	124	153	20	29	122	235
2	Westchester Lagoon	80	53	160	83	974	749	259	124	1340	1430
3	Lake Ballinger	28	67	36	97	276	1650	54	228	443	4480
4	Tolt Reservoir	13	7	4	2	26	14	3	1	35	18
5	Lake Washington	17	4	6	2	56	22	17	5	128	53
6	West Street Basin	55	53	178	109	944	634	181	135	2200	1390
7	R.R. Canyon Lake	3	2	3	3	8	7	6	5	21	16
8	Sweetwater Reservoir	4	8	8	8	9	12	5	2	20	17
9	Lake Mead	2	3	nd	1	3	5	3	4	5	8
10	Great Salt Lake	11	19	5	6	36	40	12	21	34	39
11	Red Butte Reservoir	2	3	1	1	3	4	2	3	4	4
12	Sloans Lake	26	27	72	61	626	614	165	138	1650	1560
13	Cherry Creek Reservoir	1	2	2	3	5	13	2	4	6	31
14	Lake Como	10	19	74	56	676	582	190	130	1060	1450
15	Echo Lake	14	18	24	28	146	236	60	102	296	762
16	Fosdic Lake	8	22	27	62	152	737	40	151	409	2460
17	White Rock Lake	2	3	7	6	10	65	5	23	35	274
18	Town Lake	5	8	9	21	87	235	30	64	290	1240
19	Lorence Creek Lake	5	4	11	10	50	75	12	17	110	223
20	Lake Houston	2	9	2	18	6	20	12	44	25	57
21	Palmer Lake, West Lobe	27	33	57	150	150	1351	33	321	286	4480
22	Lake Harriet	96	82	231	144	2100	1620	634	430	4810	3970
23	Lake in the Hills	3	16	23	72	47	489	15	87	94	1193
24	Beck Lake	10	14	36	67	72	179	19	44	181	432
25	Shoe Factory Road Pond	7	18	22	54	70	136	17	54	109	247
26	Berkeley Lake	20	12	24	17	179	163	31	55	196	378
27	Lake Panola	4	2	4	2	10	7	2	1	10	7
28	Lake Killarney	28	48	68	109	853	1900	171	330	3970	8230
29	Sand Lake	2	3	6	6	21	40	5	6	32	83
30	Lake Anne	6	20	12	101	72	1650	24	219	131	3290
31	Clyde Potts Reservoir	27	28	35	33	300	350	100	98	715	809
32	Orange Reservoir	44	55	60	91	360	760	244	231	826	1630
33	Newbridge Pond	216	198	309	392	1860	5760	496	1050	4860	14900
34	Big Round Top	23	23	34	27	282	249	29	29	402	374
35	Harris Pond, Middle	70	41	52	47	488	545	249	212	1006	1312
36	Upper Mystic Lake	395	267	338	337	3220	4760	1740	879	11100	13200
37	South Reservoir	151	157	229	158	1820	1210	382	297	3715	2510
38	Charles River, Lower	610	461	991	777	7940	5710	2460	1980	16300	14700

Table SI3, cont.

MAP number	Lake Name	Concentration ( $\mu\text{g}/\text{kg}$ )									
		Pyrene		Benz[a]anthracene		Chrysene		Benzo[a]pyrene		$\Sigma\text{PAH}$	
		1970	1990s	1970	1990s	1970	1990s	1970	1990s	1970	1990s
1	Hillstrand Pond	215	282	50	88	140	230	47	106	984	1270
2	Westchester Lagoon	2100	1400	601	403	1060	885	555	396	9540	6000
3	Lake Ballinger	585	4440	98	1100	270	2420	210	1780	2240	17000
4	Tolt Reservoir	25	12	8	4	42	20	6	4	200	104
5	Lake Washington	137	51	56	21	109	38	70	27	658	241
6	West Street Basin	2090	1480	539	522	1150	1120	606	589	9720	7050
7	R.R. Canyon Lake	25	19	9	6	15	13	11	9	129	114
8	Sweetwater Reservoir	16	15	7	9	12	14	8	13	95	113
9	Lake Mead	6	9	3	4	5	6	5	6	46	67
10	Great Salt Lake	33	39	12	20	33	41	14	24	258	360
11	Red Butte Reservoir	4	5	2	3	4	4	3	2	36	44
12	Sloans Lake	1420	1400	1100	1220	1350	1570	1460	1770	8430	8890
13	Cherry Creek Reservoir	4	31	2	13	4	20	2	16	41	150
14	Lake Como	792	1090	580	736	734	1170	522	817	4810	6430
15	Echo Lake	286	597	164	324	255	674	182	384	1600	3410
16	Fosdic Lake	344	1870	125	769	194	1150	175	1100	1560	8250
17	White Rock Lake	38	230	13	106	21	187	15	159	175	1165
18	Town Lake	239	1010	120	452	137	717	131	563	1110	4500
19	Lorence Creek Lake	90	176	44	79	63	148	57	117	500	900
20	Lake Houston	36	49	11	41	19	16	11	31	141	314
21	Palmer Lake, West Lobe	205	3480	83	1340	130	2820	78	1500	1190	16100
22	Lake Harriet	3980	3040	1830	1380	2280	1800	2060	1680	19500	15200
23	Lake in the Hills	66	841	26	308	49	606	37	458	624	4590
24	Beck Lake	103	301	52	138	66	175	53	173	776	1790
25	Shoe Factory Road Pond	77	174	37	111	49	110	50	147	587	1190
26	Berkeley Lake	151	324	64	140	86	274	70	187	918	1710
27	Lake Panola	7	5	3	3	5	4	4	4	61	45
28	Lake Killarney	3260	6750	750	2050	1710	4740	1540	4220	12800	29800
29	Sand Lake	25	67	10	19	13	23	7	20	150	316
30	Lake Anne	112	2300	50	567	85	1820	50	771	609	11000
31	Clyde Potts Reservoir	640	689	277	289	415	466	314	314	3110	3360
32	Orange Reservoir	802	1431	430	788	603	1281	527	980	4490	7920
33	Newbridge Pond	4570	12300	1540	6250	3490	11000	2240	6740	21600	61100
34	Big Round Top	287	302	98	117	193	216	144	155	1600	1590
35	Harris Pond, Middle	917	1097	390	472	627	778	499	756	4740	5660
36	Upper Mystic Lake	10500	10600	4560	4680	6800	7510	7280	6120	49300	50100
37	South Reservoir	2830	1890	1400	913	1900	1270	1500	1000	14700	9980
38	Charles River, Lower	15800	13100	7960	7030	11000	9750	9460	8680	78000	66400



Table SI3, cont.

MAP number	Lake Name	Concentration ( $\mu\text{g}/\text{kg}$ )									
		Chlordane		DDD		DDE		$\Sigma\text{DDT}$		$\Sigma\text{PCB}$	
		1970	1990s	1970	1990s	1970	1990s	1970	1990s	1970	1990s
1	Hillstrand Pond	7.8	3.6	11	1.6	8.5	3.7	21	6.3	162	63
2	Westchester Lagoon	18	9.5	25	1.5	14	6.4	51	12	620	114
3	Lake Ballinger	65	77	50	9.4	15	6.6	67	20	220	43
4	Tolt Reservoir	<i>nd</i>	<i>nd</i>	0.8	<i>nd</i>	1.1	0.6	1.9	0.6	<i>nd</i>	<i>nd</i>
5	Lake Washington	53	35	77	7.3	26	6.1	107	16	199	59
6	West Street Basin	1280	164	158	20	113	31	286	82	422	61
7	R.R. Canyon Lake	6.1	7.6	200	8.2	159	21	363	31	51	2.5
8	Sweetwater Reservoir	<i>nd</i>	1.4	9.6	0.8	3.1	3.1	12.7	3.9	<i>nd</i>	<i>nd</i>
9	Lake Mead	<i>nd</i>	<i>nd</i>	2.4	2.4	4.7	5.7	7.4	8.8	<i>nd</i>	3.3
10	Great Salt Lake	<i>nd</i>	<i>nd</i>	<i>nd</i>	<i>nd</i>	5.3	<i>nd</i>	5.3	<i>nd</i>	159	47
11	Red Butte Reservoir	<i>nd</i>	<i>nd</i>	<i>nd</i>	<i>nd</i>	<i>nd</i>	<i>nd</i>	<i>nd</i>	<i>nd</i>	<i>nd</i>	<i>nd</i>
12	Sloans Lake	9.0	7.3	1.8	1.0	12.5	6.6	14.3	7.6	31.1	25.2
13	Cherry Creek Reservoir	<i>nd</i>	1.5	1.4	0.2	1.3	0.4	2.5	0.6	<i>nd</i>	<i>nd</i>
14	Lake Como	360	176	36	14	19	11	54	25	147	80
15	Echo Lake	17	92	80	6.2	54	21	136	29	366	251
16	Fosdic Lake	45	127	11	0.0	66	22	78	24	330	108
17	White Rock Lake	2.8	30	7.4	4.0	27	5.1	36	9.4	35	13
18	Town Lake	38	37	78	13.3	67	31	150	48	58	38
19	Lorence Creek Lake	8.3	46	6.7	8.8	56	10	63	20	26	9.1
20	Lake Houston	<i>nd</i>	<i>nd</i>	0.4	<i>nd</i>	2.0	0.5	2.4	0.5	<i>nd</i>	<i>nd</i>
21	Palmer Lake, West Lobe	8.8	26	300	42	58	26	361	72	34	79
22	Lake Harriet	10	87	400	99	130	98	551	213	218	113
23	Lake in the Hills	16	<i>nd</i>	<i>nd</i>	<i>nd</i>	26	5.5	28	5.5	78	4.4
24	Beck Lake	<i>nd</i>	1.6	28	12	24	6.3	54	19	39	15
25	Shoe Factory Road Pond	<i>nd</i>	<i>nd</i>	1.9	<i>nd</i>	4.8	11	6.7	11	<i>nd</i>	<i>nd</i>
26	Berkeley Lake	41	31	29	<i>nd</i>	17	2.6	46	3.8	104	23
27	Lake Panola	<i>nd</i>	<i>nd</i>	1.7	0.5	3.3	1.1	5.0	1.6	<i>nd</i>	<i>nd</i>
28	Lake Killarney	59	164	1.5	2.8	45	30	47	33	220	153
29	Sand Lake	<i>nd</i>	<i>nd</i>	5.1	<i>nd</i>	38	4.2	43	4.2	<i>nd</i>	<i>nd</i>
30	Lake Anne	97	61	4.2	5.3	3.1	2.2	8.0	8.4	43	29
31	Clyde Potts Reservoir	2.2	2.3	6.2	6.3	7.0	5.5	15	13	33	14
32	Orange Reservoir	705	1380	635	84	92	74	740	178	75	70
33	Newbridge Pond	11000	5250	1140	355	425	235	1650	680	1310	362
34	Big Round Top	14	18	18	7.3	21	11	39	18	72	53
35	Harris Pond, Middle	34	26	6.3	5.4	22	16	30	22	250	139
36	Upper Mystic Lake	790	360	140	38	140	36	368	94	1050	215
37	South Reservoir	17	31	51	58	68	47	124	112	54	115
38	Charles River, Lower	725	443	280	159	123	79	430	267	2700	1190