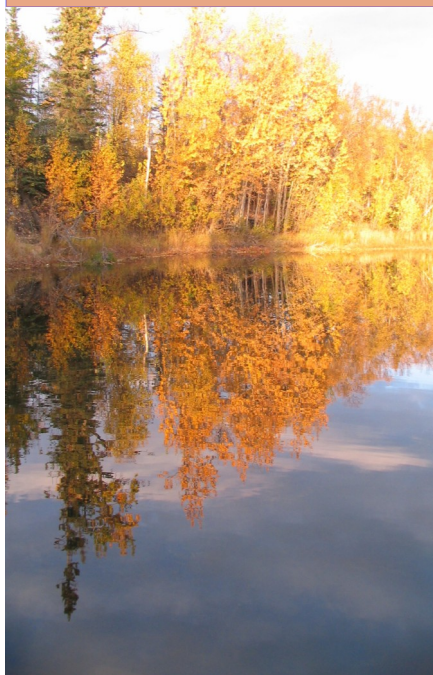


Finger Lake 2014 Data Summary



Finger Lake Snapshot

Years Monitored: 14
Total # of Events: 88
2014 Events: 10
Total Hours Monitored: 221.3

Algae:
None

Aquatic Plants:
None

Additional Comments:
Rocks along the shoreline
are showing for the first
time due to low water
level.

Wildlife Observed:

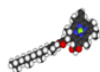
Bonaparte's gulls
Ducks
Grebes
Gulls
Loons

Water Level:

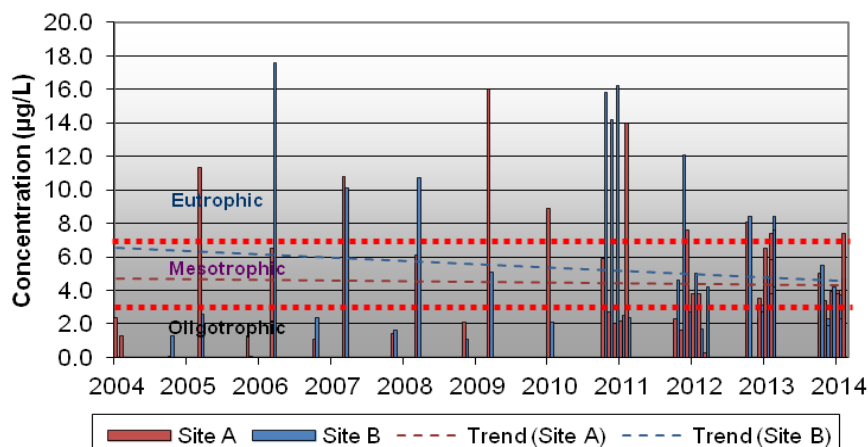
Low to medium

Water Color:

Yellow/light tan
Light green

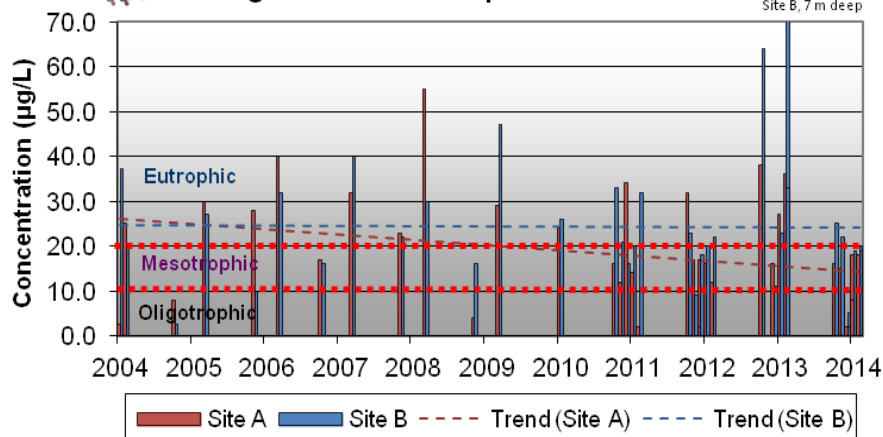


Finger Lake • Chlorophyll a 2004-2014



Finger Lake • Phosphorus 2004-2014

09/05/2013:
146 µg/L
Site B, 7 m deep



Finger Lake Site A Profile Measurements

Finger Lake Site A		Depth (m)	Temperature (oC)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Secchi Depth mean (m)
Date	9/25/2014	0.0	11.93	0.260	9.06	8.14	4.50
		1.0	11.91	0.260	8.97	8.14	
Site Depth (m)	12.60	2.0	11.89	0.261	8.93	8.14	
		3.0	11.87	0.261	8.96	8.13	
Phosphorus (µg/L)		4.0	11.85	0.261	8.89	8.13	
at 2 m	18.0	5.0	11.85	0.261	8.96	8.12	
at 7 m	14.0	6.0	11.84	0.261	8.80	8.11	
Chlorophyll a (µg/L)		7.0	11.81	0.261	8.87	8.10	
at 2 m	4.7	8.0	11.80	0.261	8.69	8.09	
at 7 m	7.4	9.0	11.79	0.261	8.72	8.08	
		10.0	11.74	0.262	8.49	8.03	
		11.0	11.71	0.261	8.46	8.03	
		12.0	10.59	0.325	0.38	7.39	
Date	8/30/2014	0.0	16.24	0.259	9.29	8.51	3.34
		1.0	16.19	0.259	9.25	8.49	
Site Depth (m)	12.55	2.0	16.03	0.263	9.17	8.49	
		3.0	15.88	0.258	9.28	8.50	
Phosphorus (µg/L)		4.0	15.80	0.258	9.19	8.49	
at 2 m	18.0	5.0	15.78	0.259	9.12	8.46	
at 7 m	8.0	6.0	15.77	0.259	9.11	8.45	
Chlorophyll a (µg/L)		7.0	15.70	0.259	8.82	8.38	
at 2 m	4.0	8.0	15.56	0.261	6.95	7.99	
at 7 m	3.8	9.0	15.21	0.262	2.61	7.77	
		10.0	13.35	0.283	0.15	7.39	
		12.0	8.75	0.329	0.09	7.24	
Date	7/27/2014	0.0	19.18	0.260	8.96	8.66	4.34
		1.0	19.19	0.262	9.03	8.69	
Site Depth (m)	12.70	2.0	19.18	0.261	9.27	8.70	
		3.0	19.18	0.264	9.06	8.70	
Phosphorus (µg/L)		4.0	19.17	0.262	8.80	8.71	
at 2 m	2.0	5.0	19.17	0.260	8.63	8.72	
at 7 m	2.0	6.0	19.01	0.261	8.40	8.69	
Chlorophyll a (µg/L)		7.0	16.25	0.285	5.24	7.98	
at 2 m	1.7	8.0	14.99	0.289	2.70	7.80	
at 7 m	3.9	9.0	12.98	0.298	0.29	7.66	
		10.0	10.63	0.305	0.23	7.56	
		12.5	7.94	0.327	0.21	7.36	
Date	6/19/2014	0.0	16.41	0.285	10.66	8.17	5.39
		1.0	15.70	0.284	10.75	8.26	
Site Depth (m)	12.70	2.0	15.19	0.285	10.80	8.30	
		3.0	15.10	0.285	10.79	8.32	
Phosphorus (µg/L)		4.0	14.97	0.285	10.68	8.30	
at 2 m	8.0	5.0	14.89	0.285	10.67	8.29	
at 7 m	15.0	6.0	14.73	0.285	10.54	8.27	
Chlorophyll a (µg/L)		7.0	14.31	0.288	9.51	8.10	
at 2 m	2.2	8.0	13.32	0.293	7.02	7.80	
at 7 m	3.4	9.0	11.52	0.301	1.84	7.60	
		10.0	8.94	0.306	0.20	7.37	
		12.5	6.74	0.317	0.14	7.04	

Highlighted data does not meet Alaska Water Quality Standards (WQS)

Finger Lake Site A Profile Measurements

Finger Lake Site A		Depth (m)	Temperature (oC)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Secchi Depth mean (m)	
Date	5/21/2014	0.0	14.20	0.296	10.65	8.62	3.64	
		1.0	13.91	0.296	10.58	8.68		
Site Depth (m)	12.50	2.0	13.86	0.296	10.57	8.70		
		3.0	13.80	0.296	10.60	8.71		
Phosphorus (µg/L)		4.0	13.72	0.296	10.58	8.71		
at 2 m	7.0	5.0	13.32	0.297	10.56	8.67		
at 7 m	16.0	6.0	12.95	0.297	10.42	8.63		
Chlorophyll a (µg/L)		7.0	12.78	0.298	10.46	8.62		
at 2 m	2.5	8.0	11.20	0.300	10.23	8.50		
at 7 m	5.0	9.0	7.12	0.300	8.19	8.25		
		10.0	6.58	0.302	5.15	8.05		
		11.0	6.36	0.304	1.42	7.88		
		12.0	6.28	0.305	0.19	7.70		
ChIA	TP	Depth	T°	Cond	DO	pH	Secchi	
7.4	18.0	12.70	19.19	0.329	10.80	8.72	5.39	Max
1.7	2.0		6.28	0.258	0.09	7.04	3.34	Min
3.9	11.0		13.76	0.285	8.96	8.21	4.34	Med
3.9	10.8		13.51	0.280	7.47	8.19	4.24	Ave
1.6	6.2		3.35	0.021	3.67	0.43	0.80	StDev

Finger Lake Site B Profile Measurements

Finger Lake Site B		Depth (m)	Temperature (oC)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Secchi Depth mean (m)
Date	9/24/2014	0.0	12.12	0.262	9.36	7.89	4.14
		1.0	12.11	0.262	9.11	7.96	
Site Depth (m)	10.50	2.0	12.06	0.262	8.76	8.01	
		3.0	12.03	0.262	8.98	8.04	
Phosphorus (µg/L)		4.0	12.00	0.262	8.96	8.06	
at 2 m	20.0	5.0	11.99	0.263	9.02	8.06	
at 7 m	19.0	6.0	11.98	0.263	9.01	8.06	
Chlorophyll a (µg/L)		7.0	11.96	0.263	8.84	8.06	
at 2 m	5.0	8.0	11.93	0.264	8.74	8.05	
at 7 m	3.8	9.0	11.87	0.264	8.33	8.01	
		10.0	11.83	0.267	7.98	7.93	
Date	8/30/2014	0.0	16.14	0.259	9.40	8.46	3.92
		1.0	15.94	0.259	9.40	8.44	
Site Depth (m)	10.50	2.0	15.87	0.259	9.48	8.46	
		3.0	15.85	0.263	9.42	8.45	
Phosphorus (µg/L)		4.0	15.83	0.259	9.30	8.44	
at 2 m	6.0	5.0	15.78	0.260	8.99	8.35	
at 7 m	19.0	6.0	15.63	0.262	8.06	8.14	
Chlorophyll a (µg/L)		7.0	15.50	0.265	5.80	7.78	
at 2 m	3.7	8.0	14.75	0.275	2.16	7.53	
at 7 m	2.3	9.0	12.22	0.330	0.15	7.31	
		10.0	9.47	0.367	0.14	7.21	

Highlighted data does not meet Alaska Water Quality Standards (WQS)

Finger Lake Site B Profile Measurements

Finger Lake Site B		Depth (m)	Temperature (oC)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Secchi Depth mean (m)	
Date	7/23/2014	0.0	20.11	0.262	9.93	8.64	4.79	
		1.0	20.16	0.260	9.95	8.66		
Site Depth (m)	10.25	2.0	20.16	0.261	10.02	8.67		
		3.0	20.16	0.262	9.97	8.67		
Phosphorus (µg/L)		4.0	19.55	0.266	9.78	8.61		
at 2 m	5.0	5.0	18.96	0.270	8.71	8.38		
at 7 m	2.0	6.0	17.10	0.286	6.75	7.91		
Chlorophyll a (µg/L)		7.0	14.90	0.298	4.50	7.73		
at 2 m	1.3	8.0	13.10	0.307	0.50	7.52		
at 7 m	4.2	9.0	10.01	0.343	0.24	7.41		
		10.0	8.52	0.364	0.23	7.23		
Date	6/19/2014	0.0	16.15	0.284	10.78	8.33	4.94	
		1.0	15.21	0.284	10.90	8.35		
Site Depth (m)	10.20	2.0	15.09	0.284	10.84	8.35		
		3.0	14.96	0.284	10.93	8.35		
Phosphorus (µg/L)		4.0	14.85	0.284	10.93	8.35		
at 2 m	9.0	5.0	14.67	0.286	10.41	8.29		
at 7 m	22.0	6.0	14.07	0.291	9.45	8.08		
Chlorophyll a (µg/L)		7.0	12.84	0.299	7.62	7.85		
at 2 m	2.3	8.0	11.02	0.310	1.60	7.52		
at 7 m	1.9	9.0	8.62	0.339	0.18	7.39		
		10.0	7.47	0.355	0.15	7.22		
Date	5/21/2014	0.0	13.98	0.296	10.80	8.44	4.03	
		1.0	13.56	0.297	11.07	8.57		
Site Depth (m)	10.30	2.0	13.44	0.297	11.02	8.58		
		3.0	13.40	0.297	10.94	8.63		
Phosphorus (µg/L)		4.0	13.33	0.297	10.79	8.63		
at 2 m	10.0	5.0	12.81	0.298	10.87	8.62		
at 7 m	25.0	6.0	11.68	0.302	10.94	8.55		
Chlorophyll a (µg/L)		7.0	10.26	0.307	11.50	8.45		
at 2 m	2.5	8.0	8.03	0.318	10.26	8.25		
at 7 m	5.5	9.0	7.16	0.331	6.90	8.05		
		10.0	6.04	0.368	0.12	7.80		
ChIA	TP	Depth	T°	Cond	DO	pH	Secchi	
5.5	25.0	10.50	20.16	0.368	11.50	8.67	4.94	Max
1.3	2.0		6.04	0.259	0.12	7.21	3.92	Min
3.1	14.5		13.40	0.284	9.11	8.14	4.14	Med
3.3	13.7		13.57	0.288	7.80	8.12	4.36	Ave
1.4	8.2		3.36	0.031	3.71	0.43	0.47	StDev

Highlighted data does not meet Alaska Water Quality Standards (WQS)

The Alaska Water Quality Standards do not apply absolutely to lakes without taking multiple factors into account. For more information on WQS, please see <http://www.dec.state.ak.us/water/wqsar/wqs/>.

Matanuska-Susitna Borough
Volunteer Lake Monitoring Program

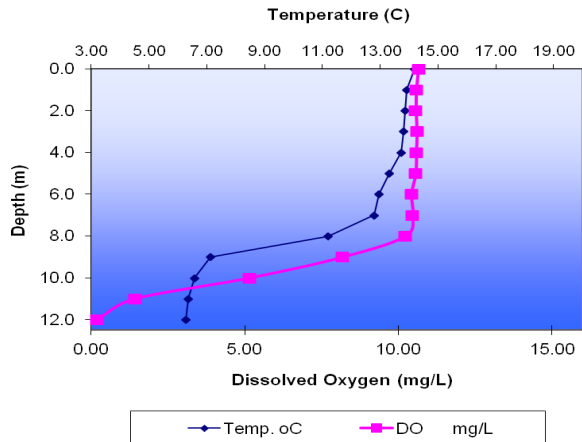




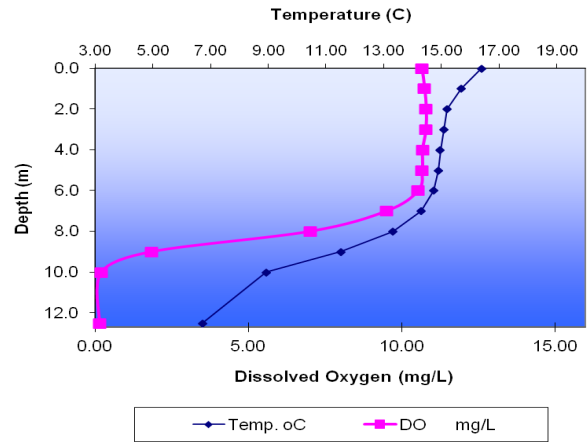
Finger Lake Secchi Data 2001-2014



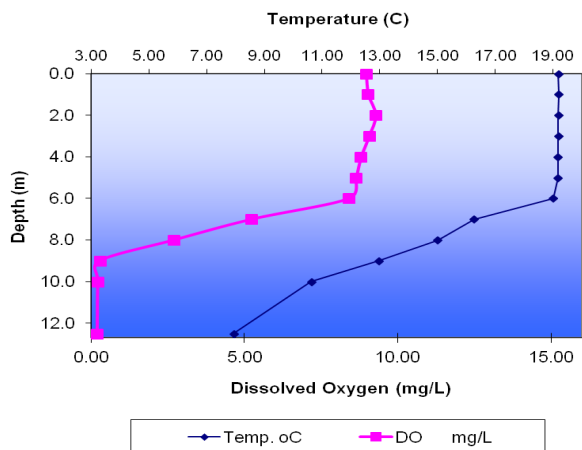
Temperature and Dissolved Oxygen Profile
Finger Lake Site A -- May 2014



Temperature and Dissolved Oxygen Profile
Finger Lake Site A -- June 2014



Temperature and Dissolved Oxygen Profile
Finger Lake Site A -- July 2014



Temperature and Dissolved Oxygen Profile
Finger Lake Site August 2014

