

Nancy Lake 2014 Data Summary

Nancy Lake Snapshot

Years Monitored: 7
 Total # of Events: 25
 2014 Events: 4
 Total Hours Monitored: 101.5



Observations

Wildlife Observed:

Grebes
Loons

Water Level:

Low to medium

Water Color:

Light green
Yellow/light tan

Algae:

Sparse

Aquatic Plants:

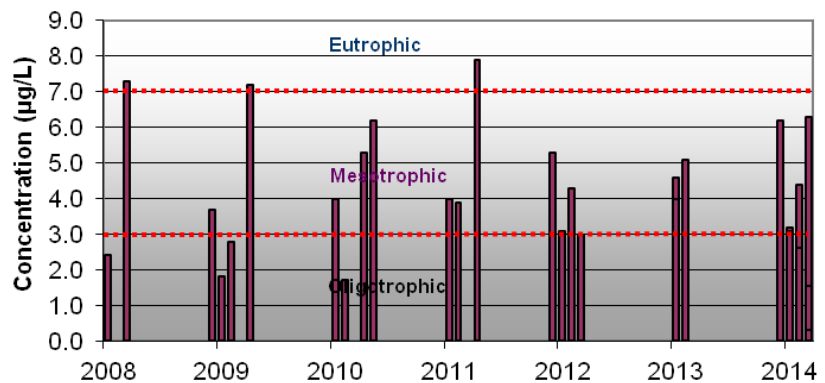
None to sparse, distributed along the shoreline.

Additional Comments:

Water level raised in June due to rain, then went back to low.

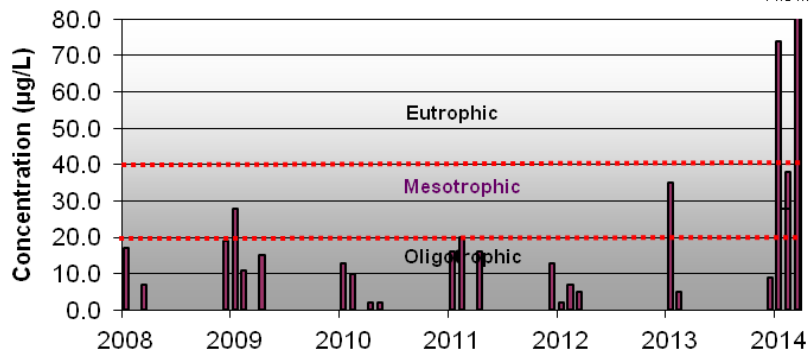


Nancy Lake • Chlorophyll a 2008-2014



Nancy Lake • Phosphorus 2008-2014

8/20/14
109 µg/L at
14.5 m deep



Nancy Lake Profile Measurements

Nancy		Depth (m)	Temperature (oC)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Secchi Depth mean (m)
Date	8/20/2014	0.0	17.53	0.105	9.63	7.88	2.85
		1.0	17.31	0.105	9.52	7.89	
Site Depth (m)	19.50	2.0	17.13	0.106	9.47	7.88	
		3.0	16.69	0.106	9.32	7.84	
Phosphorus (µg/L)		4.0	16.53	0.106	9.05	7.79	
at 2 m	18.0	5.0	15.20	0.109	8.00	7.74	
at 14.5 m	109.0	6.0	11.28	0.123	2.16	7.60	
Chlorophyll a (µg/L)		7.0	9.18	0.135	1.66	7.54	
at 2 m	6.3	8.0	7.61	0.152	0.30	7.40	
at 14.5 m	0.3	9.0	7.31	0.158	0.23	7.31	
		10.0	6.89	0.188	0.18	7.20	
		15.0	4.42	2.740	0.17	6.87	
		19.0	4.59	5.430	0.15	7.11	
Date	7/23/2014	0.0	18.74	0.102	9.30	7.85	3.00
		1.0	18.75	0.103	9.40	7.78	
Site Depth (m)	19.50	2.0	18.71	0.102	9.31	7.76	
		3.0	18.52	0.102	9.34	7.73	
Phosphorus (µg/L)		4.0	18.00	0.102	9.25	7.68	
at 2 m	2.0	5.0	12.06	0.111	8.69	7.76	
at 14 m	38.0	6.0	9.57	0.120	4.78	7.47	
Chlorophyll a (µg/L)		7.0	8.16	0.133	1.90	7.31	
at 2 m	4.4	8.0	7.59	0.141	1.16	7.22	
at 14 m	2.6	9.0	7.17	0.146	0.35	7.13	
		10.0	6.73	0.185	0.17	7.04	
		15.0	4.41	2.610	0.10	7.20	
		19.0	4.56	5.370	0.10	7.04	
Date	6/28/2014	0.0	15.27	0.101	9.75	7.83	4.15
		1.0	15.22	0.101	9.70	7.82	
Site Depth (m)	19.50	2.0	15.03	0.101	9.60	7.81	
		3.0	14.91	0.101	9.57	7.79	
Phosphorus (µg/L)		4.0	14.16	0.101	9.45	7.75	
at 2 m	9.0	5.0	10.23	0.111	8.19	7.69	
at 14.5 m	74.0	6.0	8.76	0.118	6.17	7.59	
Chlorophyll a (µg/L)		7.0	7.98	0.124	5.23	7.52	
at 2 m	3.2	8.0	7.48	0.135	3.80	7.44	
at 14.5 m	3.1	9.0	7.07	0.143	3.19	7.38	
		10.0	6.42	0.179	1.62	7.24	
		15.0	4.53	2.590	0.33	7.26	
		18.5	4.68	4.980	0.23	7.13	

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



Common loon

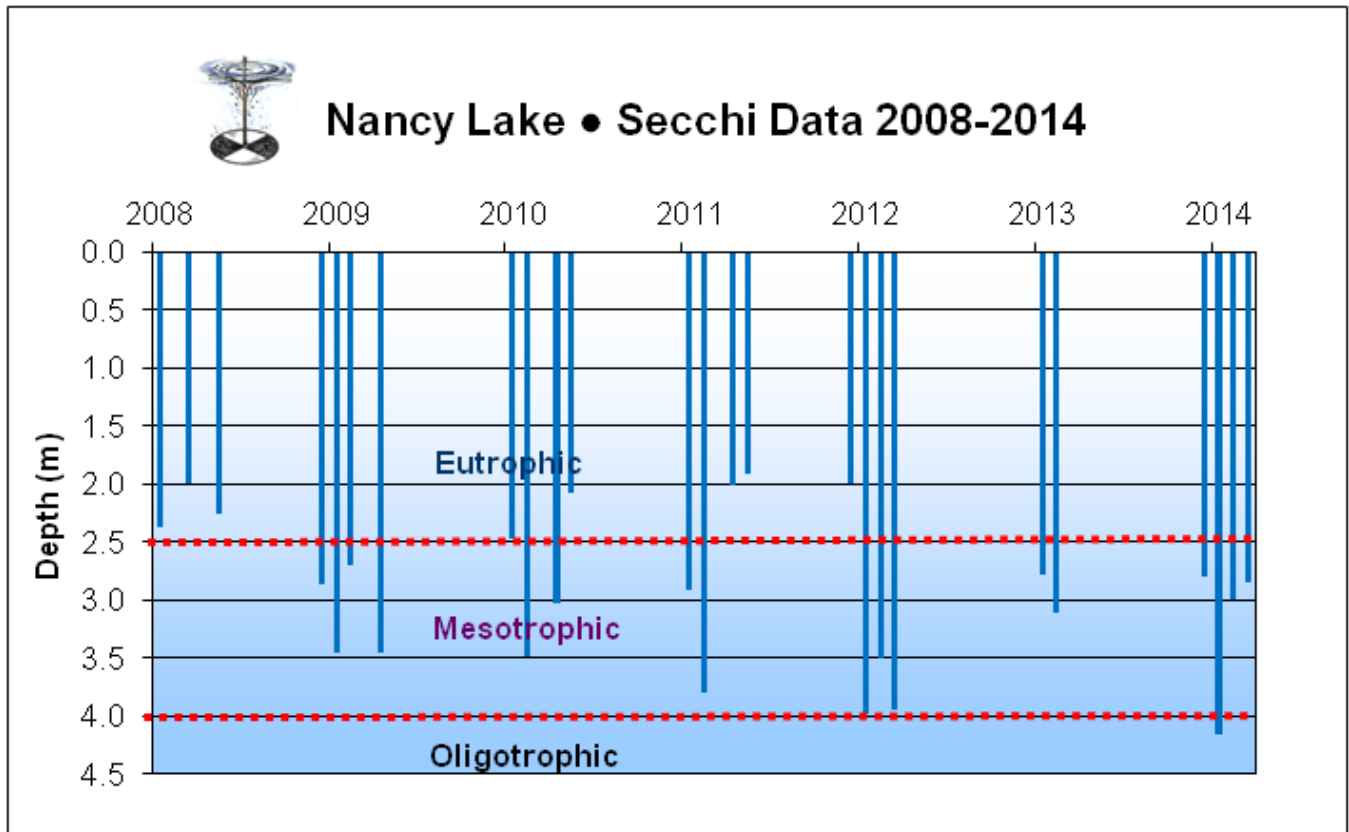
Nancy Lake Profile Measurements

Nancy		Depth (m)	Temperature (oC)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Secchi Depth mean (m)
Date	5/26/2014	0.0	12.28	0.099	10.96	7.72	2.80
		1.0	11.53	0.100	10.90	7.72	
Site Depth (m)	19.00	2.0	11.03	0.100	10.83	7.71	
		3.0	10.91	0.100	10.81	7.70	
Phosphorus (µg/L)		4.0	10.24	0.101	10.59	7.69	
at 2 m	9.0	5.0	8.71	0.101	9.47	7.65	
		6.0	7.90	0.105	8.85	7.61	
Chlorophyll a (µg/L)		7.0	6.81	0.111	7.82	7.56	
at 2 m	6.2	8.0	6.33	0.124	7.11	7.52	
		9.0	6.09	0.135	6.47	7.46	
		10.0	4.71	0.205	4.82	7.35	
		15.0	4.32	2.730	0.11	7.75	
		18.5	4.48	5.390	0.12	7.37	
ChIA	TP	Depth	T°	Cond	DO	pH	Secchi
6.3	109.0	19.50	18.75	5.43	10.96	7.89	4.15
0.3	2.0		4.32	0.10	0.10	6.87	2.80
3.2	18.0		8.97	0.11	7.47	7.61	2.93
3.7	37.0		10.42	0.71	5.76	7.54	3.20
2.1	40.2		4.79	1.50	4.15	0.27	0.64

Max
Min
Med
Ave
StDev

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

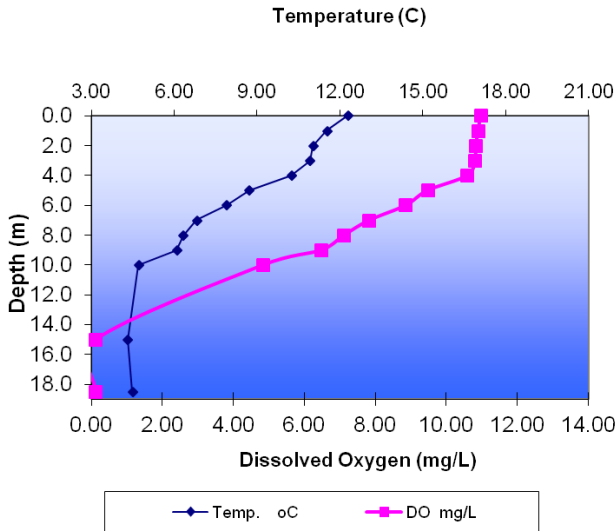
The Alaska Water Quality Standards do not apply absolutely to lakes without taking multiple factors into account. For more information on WQS, please see <http://www.dec.state.ak.us/water/wqsar/wqs/>.



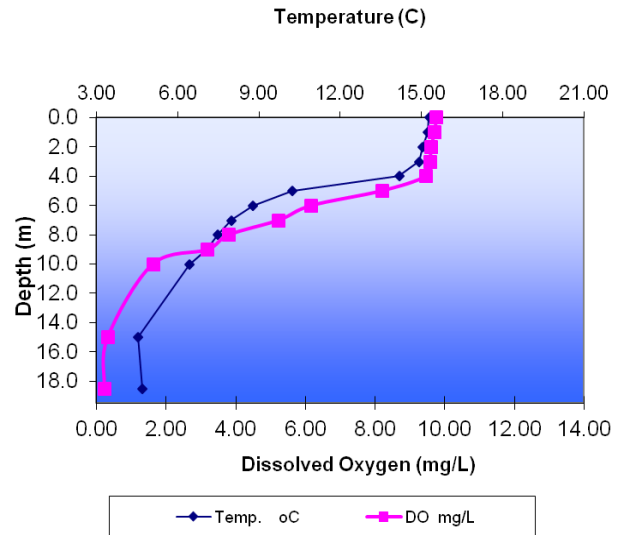
Matanuska-Susitna Borough Volunteer Lake Monitoring Program



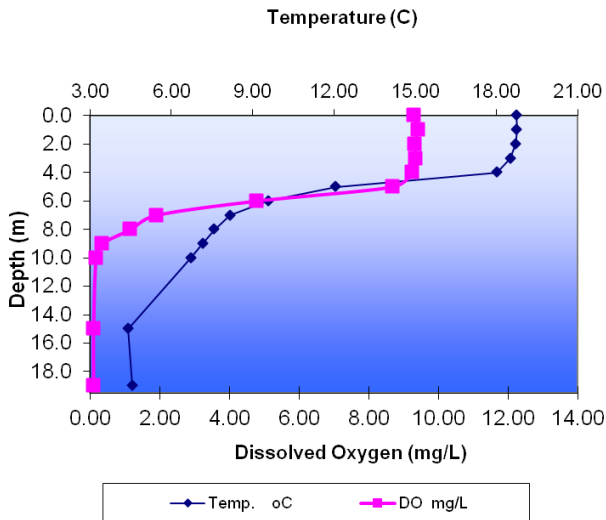
**Temperature and Dissolved Oxygen Profile
Nancy Lake -- May 2014**



**Temperature and Dissolved Oxygen Profile
Nancy Lake -- June 2014**



**Temperature and Dissolved Oxygen Profile
Nancy Lake -- July 2014**



**Temperature and Dissolved Oxygen Profile
Nancy Lake -- August 2014**

