

Susitna Lake

2014 Data Summary

Susitna Lake Snapshot

Years Monitored: 13
Total # of Events: 42
2014 Events: 2
Total Hours Monitored: 72.2

Observations

Wildlife Observed:

Bald eagle
Loons

Water Level:

High

Water Color:

Light Green

Algae:

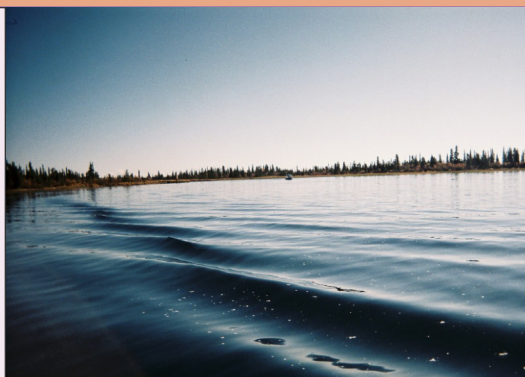
None

Aquatic Plants:

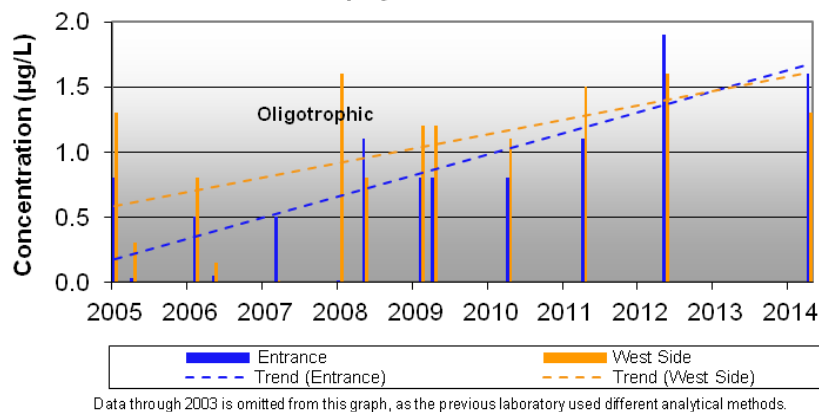
None

Additional Comments:

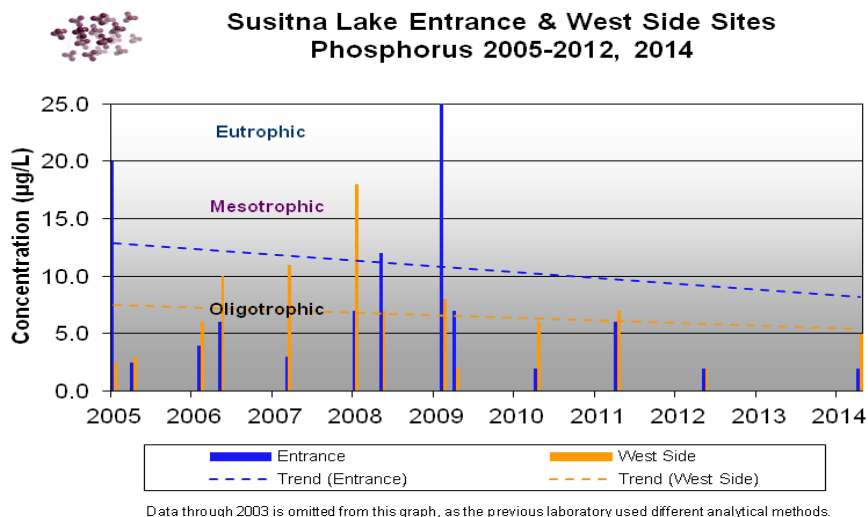
Water level 12 inches higher than previous year. Muddy bottom at the Entrance site, hard bottom at the West Side site.



Susitna Lake Entrance & West Side Sites
Chlorophyll a 2005-2012, 2014



Susitna Lake Entrance & West Side Sites
Phosphorus 2005-2012, 2014



Susitna Lake Profile Measurements

Susitna Lake Entrance		Depth (m)	Temperature (oC)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH standard units	Secchi Depth mean (m)	
Date	9/9/2014	0.0	11.23	0.001	9.81	8.15	7.38	
		1.0	11.24	0.252	9.53	8.23		
Site Depth (m)	9.30	2.0	11.28	0.293	9.33	8.21		
		3.0	11.24	0.299	9.23	8.22		
Phosphorus (µg/L)	2.0	4.0	11.22	0.298	9.13	8.23		
		5.0	11.20	0.297	9.19	8.23		
Chlorophyll a (µg/L)	1.6	6.0	11.18	0.302	9.29	8.24		
		7.0	11.12	0.298	9.22	8.25		
		8.0	10.98	0.292	9.39	8.28		
		9.0	10.94	0.292	9.29	8.27		
ChIA	TP	Depth	T°	Cond	DO	pH	Secchi	
1.6	2.0	9.30	11.28	0.302	9.81	8.28	7.38	Max
1.6	2.0		10.94	0.001	9.13	8.15	7.38	Min
1.6	2.0		11.21	0.295	9.29	8.23	7.38	Med
1.6	2.0		11.16	0.262	9.34	8.23	7.38	Ave
NA	NA		0.12	0.093	0.20	0.04	NA	StDev

Susitna Lake West Side		Depth (m)	Temperature (oC)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH standard units	Secchi Depth mean (m)	
Date	9/9/2014	0.0	10.90	0.000	10.45	7.47	7.68	
		1.0	11.60	0.314	9.34	8.05		
Site Depth (m)	18.80	2.0	11.59	0.312	9.34	8.09		
		3.0	11.58	0.310	9.23	8.13		
Phosphorus (µg/L)	5.0	4.0	11.59	0.310	9.33	8.15		
		5.0	11.59	0.314	9.38	8.17		
Chlorophyll a (µg/L)	1.3	6.0	11.58	0.310	9.31	8.18		
		7.0	11.58	0.309	9.23	8.20		
		8.0	11.59	0.310	9.22	8.20		
		9.0	11.58	0.310	9.17	8.21		
		10.0	11.57	0.310	9.16	8.20		
		15.0	11.51	0.312	9.05	8.20		
		18.0	11.24	0.313	8.44	8.12		
		18.5	11.07	0.317	8.00	8.04		
ChIA	TP	Depth	T°	Cond	DO	pH	Secchi	
1.3	5.0	18.80	11.60	0.317	10.45	8.21	7.68	Max
1.3	5.0		10.90	0.000	8.00	7.47	7.68	Min
1.3	5.0		11.58	0.310	9.23	8.16	7.68	Med
1.3	5.0		11.47	0.289	9.19	8.10	7.68	Ave
NA	NA		0.23	0.083	0.53	0.19	NA	StDev

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

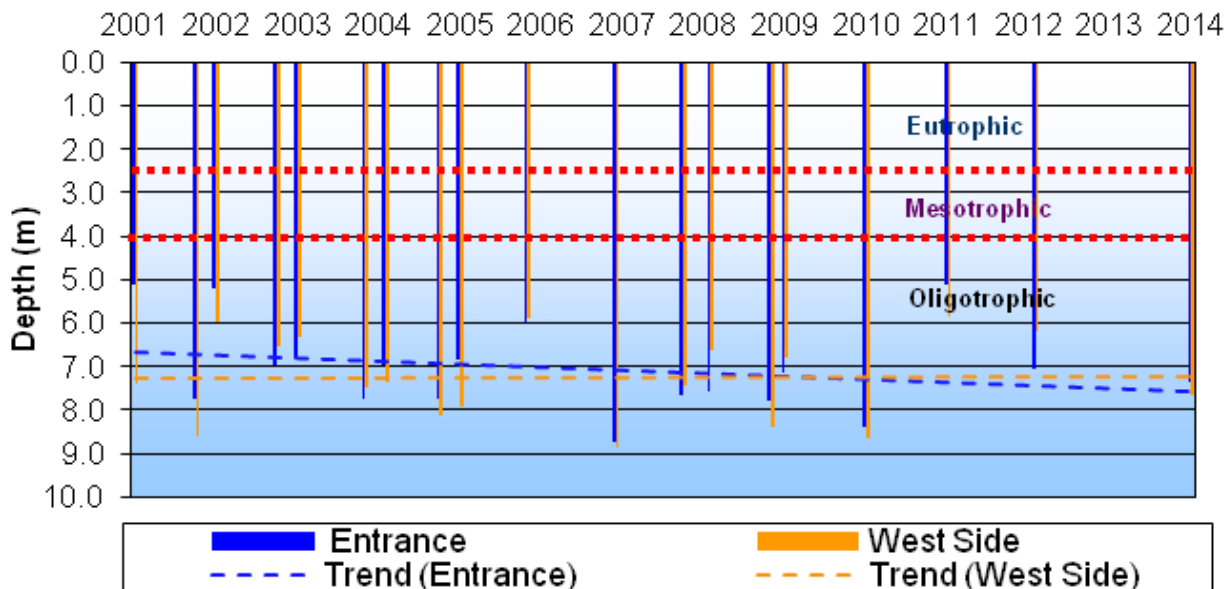
The Alaska Water Quality Standards do not apply absolutely to lakes without taking multiple factors into account. For more information on WQS, please see <http://www.dec.state.ak.us/water/wqsar/wqs/>.



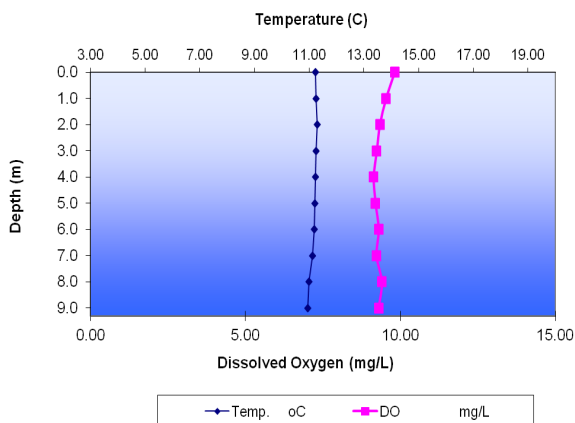
Matanuska-Susitna Borough Volunteer Lake Monitoring Program



Susitna Lake Entrance and West Side Sites Secchi Data 2001-2012, 2014



Temperature and Dissolved Oxygen Profile
Susitna Lake Site A: Entrance -- September 2014



Temperature and Dissolved Oxygen Profile
Susitna Lake Site B: West Side -- September 2014

